







CITY OF SOMERVILLE

ANNUAL REPORTS.

1886.



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1887.



CITY OF SOMERVILLE.

CITY GOVERNMENT AND OFFICERS FOR 1886.

MAYOR.

MARK F. BURNS.

Residence, 95 Perkins Street; office, City Hall.

ALDERMEN.

IRVING L. RUSSELL, President.

WARD ONE.

. Rush Street. Moses G. Steele . Arlington Street. ELBRIDGE G. PARK WARD TWO. . Washington Street. SAMUEL W. HOLT . Washington Street. DANA W. DENNETT . WARD THREE. DANIEL C. STILLSON . . Tennyson Street. HARRISON ALDRICH . . Gilman Street. WARD FOUR. IRVING L. RUSSELL . . Broadway. ALBERT M. ROBINSON . Belmont Street.

CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN.

COMMON COUNCIL.

WALTER C. MENTZER, President.

WARD ONE.

		** ****	D 011.			
JOHN MANNING .	9	•	4	•	•	Medford Street.
NATHAN H. REED						Florence Street.
FRANK G. LOMBARD		•			•	Mt. Vernon Street.
GEORGE D. WEMYSS	٥	•	•	•	•	Austin Street.
		WAR	D TW	70.		•
CHARLES P. LINCOLN		q	•		•	Laurel Street.
CHARLES L. NORTH	•	•	•	•	•	High Street.
ABRAHAM A. ELSTON		•	•		•	Springfield Street.
TIMOTHY C. DWYER	•	•	q	•	•	Somerville Avenue.
		WARI	THR	EE.		
JOHN F. KENNARD		•		•	•	Howe Street.
EDWARD O'BRIEN		•	0	•		Lowell Street.
ROBERT DUDDY .	4	•	•	•	•	Bond Street.
Elisha B. Sears	0	•	0	•	•	Medford Street.
WARD FOUR.						
BERNARD W. LAWRE	NCE			•		Holland Street.
WALTER C. MENTZER		q		•	•	Cedar Street.
Louis E. Merry		•	0	•		Dover Street.
Edward H. Bradsh	AW	•	٠		•	Cambria Street.

CLERK OF COMMON COUNCIL

Douglas Frazar.

JOINT STANDING COMMITTEES FOR 1886.

Accounts. — Aldermen Aldrich, Robinson; Councilmen Bradshaw, Lombard, North.

Burial-Grounds. — Aldermen Park, Aldrich; Councilmen Kennaid, Reed, Lincoln.

CITY ENGINEERING. — Aldermen Russell, Stillson; Councilmen Manning, Duddy, Merry.

CLAIMS. — His Honor the Mayor, ex officio; Alderman Holt; the President of the Common Council, ex officio; Councilmen Dwyer, Wemyss.

Finance. — His Honor the Mayor, ex officio; Aldermen Park, Bennett; the President of the Common Council, ex officio; Councilmen Kennard, Lombard, Bradshaw, North.

FIRE DEPARTMENT. — Aldermen Robinson, Holt; Councilmen Kennard, Lawrence, Wemyss.

Fuel and Street Lights. — Aldermen Steele, Aldrich; Councilmen Reed, Sears, Dwyer.

HIGHWAYS. — Aldermen Russell, Holt; Councilmen Manning, O'Brien, Merry.

LEGISLATIVE MATTERS. — His Honor the Mayor, ex officio; Alderman Robinson; the President of the Common Council, ex officio; Councilmen Sears, Lincoln.

Ordinances. — Aldermen Bennett, Stillson; Councilmen Sears, Elston, Wemyss.

Printing. — Aldermen Robinson, Stillson; Councilmen Lawrence, Lincoln, Duddy.

Public Property. — Aldermen Stillson, Park; Councilmen Lawrence, Elston, Duddy.

Soldiers' Relief. — Aldermen Holt, Russell; Councilmen Manning, Dwyer, Merry.

Water. — Aldermen Steele, Robinson; the President of the Common Council; Councilmen Reed, O'Brien.

COMMITTEES OF THE BOARD OF ALDERMEN.

(STANDING COMMITTEES.)

ELECTIONS. — Aldermen Bennett, Steele.

Enrolled Ordinances. — Aldermen Aldrich, Park.

LICENSES. — Aldermen Aldrich, Holt.

Police. — His Honor the Mayor, ex officio; Aldermen Aldrich, Robinson.

Sewers. — Aldermen Stillson, Bennett, Russell.

STATE AID. — Aldermen Bennett, Russell, Steele, Stillson.

(SPECIAL COMMITTEE.)

Building Permits. — Aldermen Russell, Robinson.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Elections and Returns. — Councilmen Bradshaw, North, Lombard.

Enrolled Ordinances and Resolutions. — Councilmen Lawrence, O'Brien, Elston.

SCHOOL COMMITTEE.

MARK F. Burns, Mayor, Chairman, ex officio.

Walter C. Mentzer, President of the Common Council, ex officio.

(Term three years.)

WARD ONE.

JOHN H. BUTLER (elected 1884)	Pearl Street.
S. Newton Cutler (elected 1885) .	Pearl Street.
Horace C. White, M.D. (elected 1883)	Arlington Street.

WARD TWO.

A. H. CARVILL, M. D. (elected 1885)			Bow Street.
JAMES F. BEARD (elected in convention	in	1886	
for unexpired term)	•		Prospect Hill Av.
CHARLES I. SHEPARD (elected 1884)		•	High Street.

WARD THREE.

Norman W. Bingham (elected 1885)	•	•	School Street.
Q. E. DICKERMAN (elected 1883) .	•	•	Central Street.
WILLIAM P. HILL (elected 1884) .	•	•	Sycamore Street.

WARD FOUR.

Martin W. Carr (elected 1884)	Craigie Street.
Professor Benjamin G. Brown (elected 1885)	Professors' Row.
H. P. MAKECHNIE, M.D. (elected 1883) .	Elm Street.
Superintendent and Secretary, J. H. Davis,	Myrtle Street.

ASSESSORS.

(Term, three years.)

STILLMAN H. LIBBY (elected 1886), Chairman,	Elm Street.
GEORGE W. HADLEY (elected 1885)	Perkins Street.
Benjamin F. Thompson (elected 1884) .	Summit Avenue.

ASSISTANT ASSESSORS.

(Term, one year.)

GEORGE W. BARTLETT, Ward One . . . Mt. Vernon Street. WILLIAM A. FLAHERTY, Ward Two . . Washington Street. HIRAM D. SMITH, Ward Three . . . Cross Street. SAMUEL T. RICHARDS, Ward Four . . Summer Street.

BOARD OF HEALTH.

(Term, Physician, three years; other members, two years.)

George A. Kimball (appointed 1885), Chairman. Office, City Hall.

George C. Skilton (appointed 1886) . Walnut Street.

THOMAS M. DURELL, M.D. (appointed 1885), Bow Street.

Clerk, George I. Vincent . Office, City Hall.

Inspector, William H. Brine . 40 Houghton Street.

COMMISSIONERS OF THE SINKING FUNDS.

(Term, three years.)

NATHAN TUFTS (elected 1886) . . . Summer Street.

Henry F. Woods (elected 1885) . . Sycamore Street.

Ezra D. Conant (elected 1884) . . . Pearl Street.

Treasurer, Aaron Sargent, Broadway.

OVERSEERS OF THE POOR.

Mark F. Burns, Mayor, Chairman ex officio.

HERBERT E. HILL, elected 1886 for 4 years. Mt. Vernon Street. Charles S. Lincoln, elected 1885 for 2

years Laurel Street.

Edward Glines, elected 1885 for 3 years . Highland Avenue.

CHARLES G. Brett, elected 1885 for 4 years Hall Street.

Agent, Charles C. Folsom; Office, Police Building, Bow Street. Secretary, George T. Lincoln; Office, Police Building, Bow Street.

REGISTRARS OF VOTERS.

CHARLES E. GILMAN, City Clerk.

SAMUEL G. A. TWYCROSS (appointed 1886 for 3 years).

JOHN R. CONANT (appointed 1884 for 3 years).

CROMWELL G. ROWELL (appointed 1886 for unexpired term).

SOMERVILLE MYSTIC WATER BOARD.

(Term, one year.)

J. ORLIN HAYDEN, President	. Hill Building, Union Square.
WALTER S. BARNES	. Highland Avenue.
CHARLES H. BROWN	. Sycamore Street.
John M. Woods	. School Street.
MILO CRANE	. Rush Street.
Superintendent of Water Works,	NATHANIEL DENNETT.
Office, Prospe	ct Street, cor. Somerville Avenue.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN (elected 1885), President,	Laurel Street.			
CHARLES G. POPE (elected 1885)	Franklin Street.			
J. Henry Flitner (elected 1886), Secretary,	Day Street.			
George A. Bruce (elected 1886)	Highland Avenue.			
WILLIAM E. WELD (elected 1884)	Harvard Street.			
JAMES E. WHITAKER (elected 1885 for un-				
expired term)	Sycamore Street.			
WILLIAM H. BRINE (elected 1886)	Highland Avenue.			
SANFORD HANSCOM, M.D. (elected 1885 for				
unexpired term)	Webster Street.			
CHRISTOPHER E. RYMES (elected 1885) .	Summer Street.			
Librarian, Harriet A. Adams.				
Assistant Librarian, Lizzie A. Stevens.				

CITY CLERK AND CLERK OF BOARD OF ALDERMEN

CHARLES E. GILMAN. Office, City Hall.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE. Office, City Hall.

CITY MESSENGER.

JAIRUS MANN. Office, City Hall.

CITY SOLICITOR.

Samuel C. Darling. Office, 18 Rogers Building, Boston.

CITY AUDITOR.

Douglas Frazar. Office, City Hall.

CITY ENGINEER.

GEORGE A. KIMBALL. Office, City Hall.

SUPERINTENDENT OF STREETS.

Frank G. Williams, Albion Street. Office, City Hall.

THOMAS R. ROULSTONE. Office, City Hall.

CHIEF OF POLICE.

MELVILLE C. PARKHURST, Police Station, Bow Street.

CHIEF ENGINEER OF FIRE DEPARTMENT.

James R. Hopkins. Office, Engine House, Highland Avenue.

INSPECTOR OF BUILDINGS.

ELIJAH WALKER, Pleasant Avenue.

INSPECTOR OF MILK.

THOMAS CUNNINGHAM, Oak Street.

CITY PHYSICIAN.

THOMAS M. DURELL, M. D, 14 Bow Street.

CLERK OF ASSESSORS AND COMMITTEES

GEORGE I. VINCENT. Office, City Hall.

ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

WILLIAM P. MITCHELL. Office, City Hall.

CONSTABLES.

Jairus Mann. Robert R. Perry.

MOBERT W. LEKKY.

HORACE B. RUNEY.

CHARLES C. FOLSOM.

EDWARD McGARR.

WM. H. BRINE (Houghton St.)

WILLIAM D. HAYDEN.

SAMUEL R. Dow.

JOSEPH J. GILES.

GEORGE CULLIS.

C. C. CAVANAGH.

FIELD-DRIVERS.

John E. Fuller.
Judson W. Oliver.

GEORGE H. CARLETON.

HERBERT H. MILLER.

EDD. F. FALES.

GEORGE W. BEAN.

FENCE-VIEWERS.

DAVID A. SANBORN.

CHARLES D. ELLIOT.

POUND-KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

NOAH HARDING, Sycamore Street.

SURVEYOR OF WOOD, BARK, AND LUMBER.

SAMUEL T. LITTLEFIELD.

SURVEYOR OF STONE, BRICK, AND PLASTER WORK.

ALFRED M. SIBLEY.

SURVEYOR OF MECHANICS' WORK.

CHARLES D. ELLIOT.

PUBLIC WEIGHERS.

J. C. Cousins.

JOHN CRAIG.

UNDERTAKERS.

HGRAGE B. RUNEY. A. L. SANBORN. PATRICK RAFFERTY. WILLIAM A. FLAHERTY. P. H. RAFFERTY. HORACE D. RUNEY. E. H. MARSH. THOMAS J. BARKER.

POLICE DEPARTMENT.

M. C. PARKHURST, Chief.

R. R. Perry, Captain.

JOHN E. FULLER.

A. L. STAPLES.

J. W. OLIVER.

GEORGE W. BEAN.

GEORGE L SMITH.

EDWARD M. CARTER.

E. F. FALES.

J. F. JOHNSON.

E. A. CARTER.

ANSON H. EATON.

S. R. Dow, Sergeant.

EDWARD McGARR, Sergeant. C. C. CAVANAGH, Sergeant.

P. W. SKINNER.

S. A. Brown.

JOHN HAFFORD.

IVAN LEIGHTON.

M. H. KINSLEY.

G. A. BODGE.

DENNIS KELLY. GEORGE H. CARLETON.

H. H. MILLER.

EDWARD E. HAMBLEN.

M. C. PARKHURST, Lock-up Keeper.

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Tuesday evenings of each month.

COMMON COUNCIL.

Wednesday evenings following the second and fourth Tuesdays of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month.

MAYOR'S INAUGURAL ADDRESS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, JANUARY 13, 1886.

ORDERED, That the Committee on Printing be and they are hereby authorized to cause to be printed for public use three hundred and fifty copies of the Inaugural Address of his Honor the Mayor, delivered at the inauguration of the present City Government.

Order received its first and second readings and final passage, and sent down for concurrence.

CHARLES E. GILMAN, City Clerk.

IN COMMON COUNCIL, JANUARY 13, 1886.

Order adopted by receiving its first and second readings and final passage in concurrence.

DOUGLAS FRAZAR, Clerk.

INAUGURAL ADDRESS

OF

HON. MARK F. BURNS,

DELIVERED JAN. 4, 1886.

GENTLEMEN OF THE CITY COUNCIL: -

Before calling your attention to the business and wants of the various departments of our City Government, I desire to thank the citizens of Somerville for again honoring me with an election to the important position of chief executive officer. All that I can give in return for this generous mark of their confidence will be freely given. I shall devote my time and best efforts that they may have a substantial and economical administration of the city's affairs.

In accordance with the usual custom, I have prepared for your information and assistance the following statement of the business and requirements of the different departments. The recommendations herein contained are such as my experience leads me to think should be adopted, but if they do not appeal to your best judgment you should reject them.

Your attention is first called to the following financial statement: —

FINANCES.

It appears by the forthcoming report of the Sinking Fund Commissioners, an abstract of which has been kindly furnished me by their treasurer, Mr. Aaron Sargent, that the sinking funds, January 1, 1885, amounted to \$505,852.52, to which amount was added during the year from contributions by the city and interest on investments the sum of \$71,305.66, making total amount \$577,158.18. From this amount \$60,000 has been paid to the city treasurer to provide for the extinguishment of that part of the

funded debt of the city which matured as final maturity July 1, 1885, leaving the amount of the sinking funds now on hand \$517,-158.18. All of said funds are invested in Somerville City Bonds, except \$4,158.18 which is on deposit at Maverick National Bank; that is, the Sinking Fund Commissioners actually have in their possession \$513,000 of our bonds, upon which they receive annually from the city \$25,850 for interest.

The inaugural address last year was written before the annual report of the Commissioners was received, and an error of \$1,780.48 was made in the statement of the amount of sinking funds then on hand; in the following statement the error has been corrected:—

Funded debt of the city, January 1, 1885 Less sinking funds		
Less sinking funds		02
Which made the net funded debt	\$1,079,147	48
The funded debt, January 1, 1886, was	\$1,525,000	00
Less sinking funds on hand	517,158	18
Leaves the net funded debt at the present time,	\$1,007,841	82

The unfunded liabilities are for temporary loans, \$175,000, and this amount is exceeded by uncollected taxes, assessments, and accounts due by \$8,054.98, which being taken from the funded debt leaves the net debt of the city, January 1, 1886, \$999,786.84. The net debt of the city one year ago, according to the report of the treasurer, was \$1,065,389.02, which shows that the net indebtedness of the city has been reduced the past year, \$65,602.18. The following table, furnished by the city treasurer, will show the annual reduction in the net debt since 1876, when the city debt was largest:—

1877	\$34,446 00
1878	44,196 00
1879	72,345 00
1880	23,971 00
1881	50,333 00
1882	94,169 00
1883	74,172 00
1884	35,705 00
1885	64,602 00

It will be noticed that the indebtedness of the city was reduced \$29,897 more in 1885 than in 1884.

The real estate in the city was valued last year at \$23,063,900; the personal property at \$1.814,500; total valuation, \$24,878,400. The tax rate was \$16.60 on each \$1.000, and together with 7,812 polls assessed brought \$428,605.44, the amount of the tax levy.

The following is the valuation, tax levy, and rate during the past ten years: —

YEAR.	VALUATION.	т.	AX LEV	Υ.	RATE.
1876	\$26,573.400	\$	504.745	24	\$18 60
1877	25,479,400.		471,789	14	18 10
1878	20,976,900.		409,497	10	19 00
1879	18,950,100.		352.553	80	18 00
1880	20,458,100		402,927	71	19 10
1881	22,569.100		452,945	45	19 50
1882	23,162,200		425,721	16	17 80
1883	23,812,900	4	411,645	43	16 70
1884	24,331,100	4	418,750	26	16 60
1885	24,878,400.	4	128,605	44	16 60
1876					4,105
1885		"			7,812
Increase	e in "	"	66		3,707

The Legislature of 1875 enacted a law which obliged Somerville to "establish a sinking fund, and contribute thereto from year to year an amount raised annually by taxation sufficient, with its accumulations, to extinguish the debt at maturity," or in twenty years from that time, except the water debt, which must be paid in thirty years. In the same law the limit of municipal indebtedness was fixed at three per cent of the valuation. As the funded debt of Somerville at that time was, and has been ever since, more than three per cent of the valuation, the debt has not been increased since that time for any purpose; but the sinking fund was established and contributions have been made thereto in accordance with the provisions of the law until we now have in the sinking funds \$517,158.18, as above stated, leaving our net funded debt at about \$1,000,000. The law was a very wise one, intended to check municipal extravagance, and it accomplished the object, but it was a hard law for us to obey, as our funded debt was very large in proportion to our valuation, and the sinking fund contributions required to be made each year have been a heavy tax upon our people, but it has been accomplished and the provisions of the law fulfilled to the very letter. As the debt of the city was con-

tracted for improvements which will benefit the people of future generations, it seems wrong to require it to be paid in so short a time. If the city could be allowed ten or twenty years longer in which to pay the balance of the debt, the burden of taxation would be very much lightened. The lesson of economy has been taught and the object of the legislation accomplished, and it seems to me the law should now be changed so that we may have more time in which to extinguish the debt. I would therefore recommend that an earnest effort be made to induce the present Legislature to so modify the law as to allow the sinking funds to be applied to the payment of the debt, and the time for the payment of the balance extended twenty years. If this can be done, the rate of taxation in our city may be reduced two dollars on a thousand. Such a change in the law would contribute materially to the prosperity of our city. Without it there seems but little chance to reduce the rate of taxation, at least as long as we are obliged to meet the requirements of a rapidly increasing population. Somerville has increased in population during the past five years at the average rate of one thousand a year, of course requiring increased expenditure for educating the children and cost of providing streets, sidewalks, sewers, and water for the houses in which they live. While this continues the necessary expenses will be high, and it seems to me we are entitled to some relief from the Legislature.

During the last session of the Legislature, that of 1885, a law was passed reducing the limit of municipal indebtedness to two and one half per cent of the valuation, and limiting the rate at which property could be taxed to twelve dollars on a thousand, exclusive of State tax, county tax, and sums required by law to be raised on account of city debt; also repealing the law which has allowed us to borrow money in anticipation of the next year's taxes. The operation of this law will oblige every committee and board, including the School Committee, to confine their expenditures to the amount appropriated by the City Council, since, if there should be no surplus in any appropriation which could be transferred, there would be no possible way in which the bills could be paid. It will be very readily seen that as our indebtedness is now above the limit established by law, namely, two and one half per cent of the valuation, the funded debt cannot be increased, we cannot increase our temporary loans in anticipation of

the taxes of the next year, the treasurer can pay out no money except upon the Mayor's warrant, and the Ordinances prohibit the Mayor drawing his warrant for the payment of money after an appropriation is exhausted; so if there are no unappropriated funds there would be no possible way in which the bills could be paid. It was clearly the intention of the Legislature to confine the expenditures of committees and boards to the amount appropriated by the City Council. I believe this is right. The amount appropriated for any department, while perhaps it may not be as much as a member of that committee may desire, or as much as he thinks should be used for the purpose, it nevertheless represents the sum the City Council, in their united wisdom, have determined should be expended in that department. This legislation is very important, and, in my opinion, eminently wise. A large debt is burdensome to the tax-payers; a high rate of taxation injurious to the city; certainly nothing can be more dangerous than a thoughtless expenditure of money, regardless of the sum appropriated. is, therefore, the duty of the committees and boards to cease operations whenever their appropriation appears to be exhausted, and if they do not they should be stopped by order of the City Council.

HIGHWAYS.

The amount expended on highways in 1885 was \$33,200. The recommendation of last year, that of applying the principal part of the appropriation to the repairs of old streets, was adopted by this department, and with good results. Substantial repairs were made on Linwood, Medford, and Washington streets, which have been long needed. The improvement has been of great benefit to the property owners, and must be very gratifying to all who use those streets. I believe this policy should be continued until all of our streets are placed in first-class condition.

Early in the season the street watering was transferred from the charge of the highway committee to the committee on water, much to the satisfaction of all parties. I would recommend as a still further improvement that the care of the Park and of Central Hill, including the grounds about the City Hall and Public Library, be transferred to the committee on burial grounds, and that the style of the last-named committee be changed to committee on public grounds. If this change is made, the labor of the committee on

highways will be very much reduced and the other committee be given something to do, thereby dividing the work more equally among the committees. The work can be as economically done, with less confusion in the accounts, and be done more satisfactorily every way, with less danger of the money appropriated for one purpose being used for another.

STREET LIGHTS.

One naphtha and sixteen gas lamps have been added to our street lights the past year, making 394 gas and 70 naphtha lamps used in lighting the streets at the present time. Their care and maintenance and the lighting of the streets cost the city \$8,773 in 1885.

While the lamps have been kept cleaner and in better condition, and been kept burning more nights than usual the past year, still the people are not wholly satisfied, and probably will not be until the lamps are lighted every night and kept burning until near morning. It is doubtful if the work can ever be done satisfactorily under the contract system, but if it is continued under the old plan it is hoped that the City Council will be able to provide a more liberal appropriation.

An ordinance was enacted last year which provided for the appointment of a superintendent of public property and street lights, who is to have charge of the repairs and alterations of the public buildings, under the direction of the committee on public property, and the care and management of the street lights, under the direction of the street light committee. This superintendent should have the general management of these departments, as is done in other departments. If he is allowed proper authority, as contemplated in the ordinance, the result must be highly favorable to the city, and make the labor of these committees easier as well as more agreeable.

SEWERS.

The expenses of the sewer department were considerably reduced the past year, only \$1,375.15 having been expended by the city in building new sewers. This amount, together with the sum of \$7,521.36 contributed by the owners of the property drained, enabled us to build 5,776.8 feet of new sewers. This added to the 193,165

feet we already had makes 198,941.8, or 37.7 miles, as the total length of the sewers owned by the city at the present time, which have cost the city and the property owners about \$650,000, beside some \$30,000 expended for maintenance. The cost of maintenance in 1885 was \$5,360. Of this amount \$1,335 was for cleaning and dredging at the mouth of the Bridge Street sewer, in Cambridge. As our city is now well drained, it will probably not be necessary to increase the appropriation this year.

The Massachusetts Drainage Commission appointed to devise a plan for taking the sewage out of the Charles and Mystic rivers, are about to report to the Legislature the results of their labor. They have concluded to ask the Legislature to cause the large Boston sewer, which empties at Moon Island, to be extended to Waltham, on the southerly side of the Charles River, and to have a sewer built which would begin at a point near the outlet of our sewer, which empties into the Mystic River near the Park, and running down through Charlestown Neck, across the flats by the Asylum grounds to Cambridge; thence running up near the Charles River to a point above the Brookline Street bridge, where the sewage will be pumped across the river into the Boston sewer. This sewer is to take nearly all the sewage of Charlestown, Cambridge, and Somerville, and the cost of construction of the whole system is to be apportioned among the cities and towns benefited. The commission's estimate of Somerville's portion of the cost is \$250,-000, and the annual assessment, to pay for pumping and maintenance, about \$8,000. The Alewife Brook sewage coming from Cambridge, Arlington, and Somerville is to be carried in another sewer along the brook to the Mystic Pumping Station, where it is to be pumped across the river into a large sewer which is to be built on the northerly side of the Mystic River. The cost to us of this part of the undertaking has not yet been estimated.

If the plans of the commission should be adopted, it would place a burden upon Somerville which would be very hard to bear, and which, it seems to me, the circumstances do not warrant. I do not feel that there is any danger to be apprehended by our citizens, or the citizens of the neighboring cities, from the sewage which now flows into the Mystic and Charles rivers. The time may come when it will be necessary to take the sewage out of those natural channels for drainage, but there is no necessity for immediate action. I advise opposition to all such legislation for the present,

and recommend that the City Council request the representatives from this city to do all in their power to postpone any such action. I would also recommend the employment of counsel to assist them in so doing. If the Legislature would oblige the cities and towns to abate the nuisances which now exist within their limits, in some of the tanneries, slaughter-houses, and rendering establishments, the atmosphere might be improved to such an extent as to justify the expenditure.

SCHOOLS.

The amount of money used in the support of schools and the care of school buildings, exclusive of amount required for new buildings, in 1885 was \$104,390, and the amount appropriated for new buildings, \$12,240, making the total cost of schools, \$116,630, a sum which seems to me too large. I have no doubt the cost of our schools can be reduced without impairing their efficiency. We now have twenty school buildings, containing one hundred and four school-rooms; we also hire two rooms. We have 105 public day schools, three evening grammar schools, and one evening drawing school. They are under the charge of 121 teachers. The average daily attendance for the year was 4,656 scholars, an increase of 122 over 1884. There is an urgent need of more school accommodations in Wards Three and Four. A new school building, containing at least four rooms, is very much needed in each of these wards. It is hoped you will be able to build them this year, as it must be evident to every one that we must continue to erect new buildings to provide for the rapidly increasing number of scholars. When we realize that nearly 500 new dwelling-houses have been erected in the city during the past two years, it must be apparent to every one that more schoolhouses are needed. renew the recommendation of last year, which was to build large enough to not only provide for present needs but for future necessities. Make them double the size required at present, or in such a way that their capacity may be doubled at some future time. All school buildings containing more than two school-rooms should be built of brick, as brick buildings are not only more substantial and ornamental, but are safer and more economical in the end.

FIRE DEPARTMENT.

The apparatus in active service has not been increased during the past year. It consists of one steam fire engine, five hose carriages, and one hook and ladder truck. In addition to these we have a relief steamer, hook and ladder truck, and one relief hose carriage, all in good condition and well supplied with good serviceable hose. The manual force is the same as last year, namely:—

One engine and hose company, twelve men.

One hook and ladder company, fifteen men.

Four hose companies, eight men each, thirty-two men.

One chief of department.

One a-sistant engineer.

To some it would appear that the apparatus and force of this department are entirely too small for a city of 30,000 inhabitants; and while I think it is, it does not seem to be absolutely necessary to increase it at present. Our buildings for the most part are low, and fires are easily controlled. We have unlimited amount of water, which has sufficient force to be applied without the aid of power. It is hardly to be expected that we shall constantly maintain a department large enough to meet the possible contingency of a conflagration or even a fire in our largest establishments. It would be much cheaper to give the large manufactories extra protection by means of numerous hydrants and free and unlimited supply of water. It would be wise to set more hydrants throughout the city. If we cannot at present increase the apparatus, we can afford to increase the hydrants; only one new one was set last year. So important does this appear to me that I would recommend a separate appropriation for hydrants.

The cost of the fire department in 1885 was \$22.500.

THE POOR.

Agreeably with the recommendation made in a communication to the City Council one year ago, a change has been made in this department. An amendment to the city charter was procured, so as to provide for a board of four members — one from each ward — to serve without pay for four years, the term of office of one of them to expire each year, and which allows the board to elect such

subordinate officers outside of their number as they deem necessary, and to establish such rules and regulations as they see fit for the management of the business. The salaries of such subordinate officers are fixed by the City Council. Among the advantages of this plan are the following: The Board has a subordinate officer who is on duty at all times, ready to receive applications and render prompt aid when necessary; immediate investigation of all cases is made, and all aid rendered under the direction of the Board; no one is allowed to suffer, and no one receives assistance unless they are entitled to it. It will be seen that the change was made in the interest of humanity, and the short experience we have had proves it to have been in the interest of economy, as considerable money has been saved already, and there is no doubt but the change was a good one.

The Board earnestly recommended the erection of an almshouse, and it will be your duty to carefully consider the recommendation. With an almshouse the business of the department could be much more easily and pleasantly conducted, and some of the paupers would have a better and more comfortable home than can now be procured for them. Whether the department can be run with less money or not is a matter upon which there is some doubt. Whether it is best under the circumstances to erect an almshouse this year or not is for you to determine. It is hoped you will give the matter your early attention. If one is to be provided, I would recommend that it be placed on the lot at the corner of Cedar Street and Broadway, known as the city farm, not only because the city owns the land, but because it is the proper place for it, and it is in a convenient locality. I would also recommend that a small portion of said lot be set off and devoted to the use of the poor department for a burial ground, to satisfy the request of the Overseers, which I think should be granted.

PUBLIC LIBRARY.

The appropriation in 1885 was \$2,500, and the amount received from dog licenses, \$1,402, making in all, \$3,902. This amount was expended principally for new books and in the payment of salaries of the librarian and her assistants. The whole number of books now in the library is 12,134, an increase since last January of 937. The library is well patronized, and contributes largely to

the education and happiness of the people. During the year the new library building was completed and occupied. It is an elegant and substantial building, and cost \$28.338.45. It is expected that under the management of its very efficient board of trustees it will increase in usefulness. It should be liberally supported.

CITY HALL.

An appropriation of \$5,000 was made last year with which to alter and improve the City Hall, in order to make use of the room vacated by the Public Library and provide suitable vaults and improved accommodations for the city officers. In accordance with the plans adopted by the City Council, the lower story of the building was altered; new and roomy vaults were built, one for the treasurer and one for the assessors; the city clerk's vault was enlarged; the partitions were changed in such a way as to give each office and committee-room sufficient accommodation, good light, and everything to make them pleasant and the work of the officer easy, and the whole lower story was refinished in hard wood and refurnished in an elegant manner, so as to make them compare favorably with the offices of a similar kind in other cities. New windows were put in throughout the building. The work of completing the improvement by refinishing the upper story to correspond with the lower one can be done at a small expense, as no change would be required in the partitions, no new vaults, no new windows and floors, and but a small portion of the plastering removed. I would therefore recommend that an appropriation be made this year sufficient to complete the improvement. The cost of the whole change in the building will be scarcely more than the annual interest on the cost of a new building, and it will then be good enough and large enough to accommodate the city's business for many years to come. I believe the whole plan an economical one, for the reason that it will be likely to postpone for many years the building of a new city hall.

POLICE.

The police force consists of a chief, captain, three sergeants, and twenty patrolmen.

It is evident that this force is not large enough to prevent crime.

It cannot be expected that our property can be protected and our buildings watched so constantly that burglaries will never be committed or other crimes perpetrated; neither would it be good policy to increase the force to such an extent as would make us reasonably sure that no crime would be committed, as the city is not able to maintain such a force, but the force should be composed of men who are able to detect crime and bring the criminals to justice. Our police, as usual, have been remarkably successful in this direction during the past year; and, while we have not as many patrolmen as I think we ought to have. I am happy to say the city has not as yet suffered in consequence.

The department cost the city \$23,000 last year, beside the care of the Police building.

WATER CONTRACT.

The question of obtaining a new contract with the City of Boston for the supply of Mystic water has occupied much of the attention of the authorities during the past year. The recommendations contained in the inaugural address of last year were referred to the Water Board, and the members of that board have taken a very active interest in the matter and spent a great deal of time in their efforts to bring about the desired result. They have been so far successful as to convince the members of the Boston Water Board that we are entitled to a more liberal contract, as it appears, for they have asked of their City Council for the necessary authority to make a new contract with us on the basis suggested by our city. The terms of the new contract would be substantially the same as those of the old one, except that under the new one Boston would pay to Somerville one half of the amount paid by the water takers of our city, instead of the graduated scale of fifteen, twenty, twenty five, thirty, and forty per cent, as at present. Owing to the trouble and change in the Boston Water Board, the question of a new contract was not submitted to the Boston City Council until very late in the season. For this reason, at the last meeting of their City Council the matter was referred to the next city government. So just is our claim, and so favorable the action of the Boston Water Board, that we feel that our request will soon be granted.

SUITS AT LAW.

There are now pending nine cases to which the city is a party, none of which appear to be very important. During the past year five cases have been disposed of. Two verdicts have been rendered against the city. One was the case of Kendall v. Somerville for personal injuries from falling on the sidewalk; the verdict was \$1,048.18. and costs of court, \$59.91, in all \$1,108.09. The other was the Stepp case, which was an action for personal injuries received from falling into a sewer trench; verdict, \$579.85; costs, \$137.69; in all \$717.59. The other three cases were decided in favor of the city.

There have been twelve petitions presented to the City Councilfor damages, personal or otherwise, which have been disposed of as follows: Upon five of them the City Council voted no action necessary; in five of them the petitioners were given leave to withdraw; and in the remaining two the claims were referred to the city solicitor, as suits had at the time of reference been brought against the city. Five of them were for personal injuries, two related to matters of taxation, and the remaining three were for grade damages. One case was settled without reference to the City Council.

WATERING STREETS.

The usual appropriation (\$3,000) was made for street watering the past year. This amount seems to be all the city can afford to apply to this purpose, and it is quite sufficient to keep the carts owned by the city in constant use. Without an increase in the number of carts no more money could be used. It is my belief that the property owners should contribute a larger portion of the cost of watering the streets.

WATER MAINTENANCE.

Owing to the change made by the Water Board in substituting iron pipe for cement pipe, a larger appropriation than usual was required in this department. Nearly one half of the sum appropriated (\$21,200) was used in the purchase of a supply of pipe of various sizes, not all of which has yet been used. Some sizes have been used more than others, and will need to be replenished

the coming year. Although not so large an outlay for new pipe will be required as last year, consequently not so large an appropriation will be absolutely necessary; at the same time, all of the money which can be spared can be used to good advantage in this department.

There seems to be some difference of opinion as to the policy of substituting iron for cement pipe, but where there is so great a pressure of water, experts seem to be unanimous in the opinion that it is good economy to do so.

CONCLUSION.

Gentlemen of the City Council: In closing this address it seems proper for me to introduce a word of caution or advice. Do not pledge yourselves to support any measure until you have heard the arguments which may be produced against it. While it is necessary and expected of you to understand and be governed somewhat by public sentiment, it is usually safer to consult with your associates in the City Council than to take advice of interested parties outside your number. Members of the City Council certainly ought to know better than private individuals, who usually have some private interest at stake, what they ought to do and what they can afford to do. Outside influence usually favors getting something new rather than the taking care of that which we already have. Your own sense of justice and propriety will be your safest guide. Notwithstanding the present necessity of keeping down the rate of taxation and curtailing expenses, Somerville is destined, in my opinion, to become one of the most prosperous cities in the Commonwealth. It cannot help being prosperous, in a financial point of view, from the fact that we have no expensive improvements to make, unless it be to take care of the sewage to which reference has been male; we have no bridges to build or maintain. of any consequence, as most cities have; no ferries to support, and, in fact, no very great expenses to meet, except to maintain our regular departments and support the poor. For years we have been laboring under the disadvantage of a large debt, but it must be remembered that for ten years we have been rapidly reducing it insteal of increasing it, and at the rate it is being reduced at the present time we shall be in a few short years free from it entirely. While we are reducing the debt at the present rate, it

will be necessary to keep the expenses down to the lowest possible limit consistent with the growth and prosperity of the city. It is fortunate indeed for us that we have the law to assist us.

I hope, gentlemen, to have the assistance and hearty co-operation of each and all of you in conducting the affairs of our city in such a way as will meet the approval of all the citizens and give entire satisfaction to ourselves. He who conducts public business for the benefit of all the people, merits, and generally receives, the approval of all men.



REPORT

OF THE

TREASURER AND COLLECTOR OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 26, 1887.

Referred to the committee on finance, and sent down for concurrence.

GEO. I. VINCENT, Clerk pro. tem.

IN COMMON COUNCIL, Jan. 27, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

IN COMMITTEE ON FINANCE, Feb. 10, 1887.

To the City Council of Somerville:—The committee on finance, to which was referred the annual report of the treasurer and collector of taxes for the year 1886, reports that his books and vouchers have been examined by this committee and the auditor, and have been compared with the auditor's book, and with the statements received from the several committees, boards and officers of the city, in accordance with ordinance, and no errors appear in his accounts, which are kept in a very intelligible and businesslike manner, and agree with his report. We have also verified his cash balance by actual count, and by visiting the banks of deposit; and it is hereby recommended that the report be accepted and printed in the annual reports.

MARK F. BURNS,
CHARLES L. NORTH,
EDWARD H. BRADSHAW,
GEO. D. WEMYSS,
EZRA D. SOUTHER,

IN BOARD OF MAYOR AND ALDERMEN, Feb. 23, 1887.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, Clerk.

IN COMMON COUNCIL, Feb. 24, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

CITY OF SOMERVILLE.

TREASURER'S OFFICE, Jan. 20, 1887.

To the Honorable the Mayor and City Council of the City of Somerville:

Gentlemen, — The undersigned presents herewith the fifteenth annual report of the financial condition of the city, and a statement showing in detail the receipts and disbursements of the several departments for the year ending Dec. 31, 1886.

The value of the property of the city Dec. 31, 1885, as appears by the schedule published with the last annual reports, was \$1,234,926.64; and the additions thereto were for amounts expended on the schoolhouses now in the course of construction in Wards Three and Four, viz.:—

On Bingham Schoolhouse (Lowell Street)	•	•	\$7,831	74
On Burns Schoolhouse (Cherry Street)			7,683	32

making the value of the public property, Dec. 31, 1886, as per Table A, \$1,250,441.70.

The funded debt of the city stands the same as at the close of last year, viz., \$1,525,000.

City-loan B	onds,	Nos.	175	to 182			•	0	\$40,000	00
66	66	6 6	183	to 185	•	0			15,000	00
6.6	66	No.	186	•					5,000	00
66 =	66	66	187		•	•	•		1,000	00
Water-loan	bond	s, Nos	s. 23	to 27		•	•		50,000	00
6.6	6.	No.	28	•	٠		•	•	5,500	00
Amounting	to	0		•	•	•			\$116,500	00

bearing interest at five and one half per cent, became due during the year, and were provided for by the issue of

City-loan Bond, N		•	•	•	•		\$1,000 00
	884		•	•			60,000 00
Water-loan Bond,	No. 228	8	•	•	•		7,500 00
Amounting to	•		•	•	•	•	\$68,500 00
bearing interest						_	chased by the
commissioners of	the sink	kin⊈	fund	at par	: and		

Water-loan	Bonds,	Nos.	229	to	238		•	•	•	\$10,000	00
66	66	Nos.	239	to	256					18,000	00
"	66	Nos.	257	to	266	•		•		10,000	00
66	"	Nos.	267	to	276	•	•	•		10,000	00
Amounting	to .	•	•					•		\$48,000	()0

bearing interest at four per cent per annum, sold in open market at a premium of \$8.53, amounting to \$4,094.40, making the total

amount of the bonds issued \$116,500.

To provide for the payment of the State and county taxes, and for the current expenses of the city, the assessors' warrant was received for the tax levy on a valuation on real estate of \$24,124,-700; valuation on personal property. \$1,878,500; making the total valuation \$26,003,200, at a rate of \$15.40 on \$1,000 valuation, and 8,269 polls at \$2 each, amounting to \$416,987.28.

To this amount is added the sum standing to the credit of excess and deficiency account, being the amount of unexpended appropriations Jan. 1, 1886, \$8,054.98; the amount received from the City of Boston for returns on water contract, \$21,444.91; and the additional credits received from all other sources by the various departments, amounting to \$45,780 75; making the total amount of resources for the year 1886, \$492,267.92.

The appropriations for the year provided for by the tax levy, the amounts transferred from other resources of the city, the additional amounts credited, the amounts expended, and the unexpended balances of the various accounts were as follows: -

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Broadway Park Maintenance: —			
Appropriation	. \$1,000 00		
Received for hay sold	•	\$10 05	
Expenditures	•		\$932 29
Unexpended balance	•		77 76
Fire Department: —			
Appropriation	. 24,000 00		
Received for old materials .	•	89 50	
Expenditures	•		24,057 03
Unexpended balance	•		32 47
Health Department: —			
Appropriation			
Received for permits, licenses	5,		
etc	•	303 00	0 200 01
Expenditures	•		3,588 64
Unexpended balance	•		214 36
Highways:			
Appropriation . \$32,000 0	00		
Transferred from In-			
terest account . 200 (
Descional formula beautiful and an attention and	- 32,200 00	0.070.01	•
Received for labor and materials	•	2,673 61	0.1.700.00
Expenditures	•		34,792 26 81 35
Unexpended balance	•		91 99
Indigent Soldiers and Sailors: —	200.00		•
Appropriation	. 600 00		
Received from State of Massach	u-	100 00	
setts	•	463 00	000 00
Expenditures	•		926 00 $137 00$
_	•		157 00
Interest: —	20		
Appropriation . \$55,000 (Transferred to other	00		
	70		
accounts 8,902	-46,097 27		
Received interest, corporation as			
bank taxes, etc	Iu	23,666 42	
Expended	•	20,000 12	62,428 33
Unexpended balance	•		7,335 36
Miscellaneous: —	•		1,000 00
Transferred from excess and de	0		
ficiency account	. 8,054 98		
Received for costs on taxes,			
censes, etc.	**	1,749 65	
Expenditures		2,110 00	8,452 68
Unexpended balance			1,351 95
- Charponada balando			1,001 00

Accounts.		Appropriations.	Additional Credits.	Expenditures
New Fire Hydrants : —			Creans.	and Balances.
Appropriation		. \$1,000 00		
Expenditures				\$995 84
Unexpended balance				4 16
Police:—				1 10
Appropriation . \$23,50	0 0) ,		
Transferred from in-	0 0			
terest account . 23	1 88	3		
		- 23,731 38		
Received for court fees, fines,	etc.		\$2,596 05	
Expenditures			4 -,	26,327 43
Police Station Incidentals: —				-0,0-1
Appropriation . \$1,50	0 00)		
Transferred from in-				
	0 00)		
		- 1,800 00		
Received for rent of hall, etc.			418 33	
Expenditures				1,950 51
Unexpended balance				267 82
Public Library: —				
Appropriation . \$2,50	0 00)		
Transferred from in-	0 0.			
	9 78	3		
		2,909 73		
Received for dog licenses, etc.	, ,		2,443 63	
Expenditures				$5,353\ 36$
Printing and Stationery: —			•	
Appropriation		3,000 00		
Received for advertising .	•		3 00	
Expenditures	•			2,773 43
Unexpended balance				229 57
Public Library Building: —				
Balance from 1885			311 55	
Expenditures	•			258 75
Unexpended balance	•			59 80
Salaries: —				
Appropriation . \$21,900	00			
Transferred from in-				
terest account . 377	40	22,277 40		
Expenditures		22,211 10		22,277 40
School Contingent:—	•			- in the second of the second
Appropriation \$13,000	00			
Transferred from in-	. 50			
	58			
		12,695 58		

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Received for tuition of non-res	i-		
dent pupils, etc	•	\$298 56	612.004.14
Expenditures	•		\$13,994 14
School Fuel: —	o= 000 00		
Appropriation			4,928 94
Expenditures			271 06
-	•		211 00
Schoolhouse Incidentals: — Appropriation . \$8,000 0	00		
Transferred rfom interest	,,,		
account 705 9	2		
	_ 8,705 92		
Received for old iron sold .	•	26 57	
Expenditures			8,732 49
School Teachers' Salaries: —			
Appropriation\$76,000 0	0		
Transferred from interest			
account 4,942 2			
77	- 80,942 26		20 012 96
Expenditures	•		80,942 26
Schoolhouse in Ward Three: —	20		
Appropriation \$8,500 0	00		7,881 74
Expenditures	•		668 26
Schoolhouse in Ward Four:—	•		000 20
Appropriation \$8,500 0	0		
Expenditures			7,683 32
Balance to be expended in 1887			816 68
Sewers:—			
Appropriation \$8,000 0	00		
Received for permits, etc		175 05	
Expenditures	•		7,665 54
Unexpended balance	•		509 51
Sidewalks: —			
Appropriation \$4,000 0	0		
Expenditures	•		3,631 62
Unexpended balance	•		368 38
Sinking Fund Contributions: —	0		
Appropriation . \$40,725 0 Expenditures	U		40,725 00
Expenditures	•		70,120 00
Appropriation \$9,500 0	0		
Received for lamp-posts, etc.		409 98	
Expenditures			8,862 37
Unexpended balance			1,047 61
	L L		

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Support of Poor: —		0104114	
Appropriation . \$15,000 00			
Received for support of paupers.		\$2,481 77	
Expenditures			\$14,341 83
Unexpended balance			3,139 94
Watering Streets: —			,
Appropriation \$3,000 00			
Transferred from inter-			
est account 40 46			
	\$3,040 46		
Received from abutters		4,891 26	
Expenditures			7,931 72
Water Maintenance: —			
Appropriation . \$14,000 00			
Transferred from in-			
terest account . 1,000 00			
	15,000 00		
Received for labor, materials, etc.		2,769 77	
Expenditures		•	16,885 05
Unexpended balance			884 72
Water Loan Interest: —			
Received from City of Boston for	•		
return on water rates		21,444 91	
Expended			16,571 15
Unexpended balance			4,873 76
County of Middlesex, County Tax: —			
Appropriation	12,076 37		
Expended			12,076 37
State of Massachusetts, State Tax:—			
Appropriation	20,085 00		
Expended			20,085 00
Overlay and Abatement:			
Appropriation	1,900 91		
Applied and to be applied to abate-			
ments on taxes			1,900 91
Appropriations as per tax levy .	#416 007 90		
Excess and deficiency, Jan. 1, 1886,			
"Water loan interest" received			
from city of Boston	21,444 91		
Additional credits from various			
sources	45,780 75		<i>₼ 4 1</i> 1 900 94
Expenditures			\$471,388 34
Excess of appropriations over cur-			20,879 58
rent expenses			20,019 98
Total	\$492,267 92		\$492,267 92

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Taxes	State indig essme	aid ent so nts	oldiers	and	: sailor :	s	\$151,595 728 3,560 451 987 3,446	10 00 00 24 97
Sewer assessments.			•	•	•	•	6,467 916	
Water service assessmen				•	•	•		
Cash	•	•	•	•	•	٠	9,579	10
Total amount of av	ailable	e asse	ts	•	•	•	\$177,733	26
The unfunded liabiliti	es are	:						
Temporary loans .		•	•	•	•		\$150,000	00
Overlay and abatement							3,903	
Overplus on tax sales			•	•	•		233	96
Sundry persons .			•		•	•	1,231	44
Schoolhouse in Ward Th		•		•	•		668	26
Schoolhouse in Ward Fo	our	•	•	•	•	•	816	68
Total amount of un Excess of available asse							\$156,853 20,879	
							\$177 ,733	26
The financial condition erty, is as follows:—	n of t	he ci t	y, exc	elusiv	e of i	ts	public pro	op-
Funded debt Amount of sinking fund			•	•		\$1	584,052	
Net amount of funded d Excess of available asso			unded		lities		\$940,947 20,879	
Leaving a net indebted	iess, I	Dec. 3	1, 188	36, of		1	\$920,068	01

Total cash receipts for the year, including a bal-	
ance of \$8,075.76 from the year 1885, were	\$1,116,820 28
Total cash disbursements	1,107,240 53
Leaving in the treasury the sum of	\$9,579 75

A detailed statement of the public property, funded debt, and the receipts and disbursements of the various accounts, will be found in the appendix following this report.

Respectfully submitted,

JOHN F. COLE, Treasurer.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

PUBLIC PROPERTY, DEC. 31, 1886.

Central Hill land (12 acres,	27,920	feet)			\$100,000	00
City Hall			\$10,000	00		
Furniture	•		3,000	00		
					13,000	00
Public Library		•			8,500	00
Public Library building .				•	28,338	45
Steam fire-engine house.		•	\$10,000			
Furniture			500	00		
Steam fire-engine and app			4,000	00		
Steam fire-engine, hose-c	arriage	,				
and apparatus .	_		2,000	00		
					16,500	0.0
High Schoolhouse		•	\$40,000	00		
Furniture	•		3,500	00		
Philosophical apparatus	•	•	5 00	00		
					44,000	00
Prescott Schoolhouse, land	(21,44)	4				
feet) and building			\$40,000	00		
Furniture	•	•	2,000	00		
					42,000	00
Luther V. Bell Schoolhouse	e, lan	d				
(23,396 feet) and buil	lding		\$40,000	00		
Furniture	•		3,000	00		
					43,000	00
Amount against formend					\$295,338	45
Amount carried forward	•	•	• •	•	9200,000	10

$A mount\ brought\ forward\ .$		\$295,338 45
Forster Schoolhouse, land (27,499		
feet) and building	\$37,922 24	
Furniture	1,500 00	
25 (1) 11 1 1 (20.12)		39,422 24
Morse Schoolhouse, land (29,109	#37.000.00	
feet) and building	\$25,000 00	
Furniture	1,000 00	26,000 00
Highland Schoolhouse, land (23,260		20,000 00
feet) and building	\$32,000 00	
Furniture	1,000 00	
ruimbure	1,000 00	33,000 00
Lincoln Schoolhouse, land (17,662		,
feet) and building	\$14,742 17	
Furniture	744 93	
		15,487 10
Prospect Hill Schoolhouse, land (25,-		
313 feet) and building	\$20,000 00	
Furniture	600 00	
		20,600 00
Jackson Schoolhouse, land (11,212		
feet) and building	\$8,000 00	
Furniture	300 00	0.000.00
Bennett Schoolhouse, land (20,560		8,300 00
feet) and building	\$8,000 00	
Furniture	300 00	
		8,300 00
Webster Schoolhouse, land (11,050		
feet) and building	\$8,000 00	
Furniture	300 00	
Union Schoolhouse, land (9,360 feet)		8,300 00
and building	\$2,500 00	
Furniture	100 00	
runnture	100 00	2,600 00
Harvard School, land (9,810 feet)		2,000
and building	\$2,500 00	
Furniture	100 00	
		2,600 00
Amount carried forward		\$459,947 79
and all our room for court of	• • •	W100 jo 11 10

APPENDIX TO TREASURER AND	COLLECTO	R'S	REPORT.	43
Amount brought forward. Edgerly Schoolhouse, land (26,428)		•	\$459,947	79
feet) and building	\$25,000	00		
Furniture	500			•
			25,500	00
Edgerly Schoolhouse, addition .	\$17,000	00		
Furniture	600	00		
			17,600	00
Brastow Schoolhouse, land (10,019				
feet) and building	\$6,000			
Furniture	250	00	4 0	0.0
T 11: C 1 11 1 1 (00.045			6,250	00
Franklin Schoolhouse, land (33,017	(h.) 4, 000	0.0		
feet) and building	\$14,000			
Furniture	300		14.000	0.0
Dead Charles land			14,300	00
Beach Street Schoolhouse, land	e4 500	00		
(6,000 feet) and building .	\$4,500			
Furniture	250		4 750	00
Spring Hill Schoolhouse, land (4,991			4,750	00
feet) and building.	\$1,600	٥٥		
	100			
Furniture			1,700	00
Davis Schoolhouse, Tufts Street, land			1,	
(29,584 feet) and building .	\$17,606	22		
Furniture	726			
			18,333	21
Cummings Schoolhouse, School			,	
Street, land (11,300 feet) and				
building	\$14,643	21		
Furniture	714	16		
			15,357	37
Bingham Schoolhouse, Lowell Street,				
land (21,017 feet) and build-				
ing, unfinished		•	7,831	74
Burns Schoolhouse, Cherry Street,				
land (16,080 feet) and build-				
ing, unfinished		•	7,683	32
Amount carried forward			\$579,253	43
	•	•	9010,200	70

Amount brought forward City farm, land (10 acres, 12,523		\$579,253	43
feet)		30,000	00
Cedar Street Schoolhouse \$700		00,000	00
Furniture 100			
		800	00
City stables and dwelling-houses		7,000	
Equipments for highway repairs	1	3,000	
Watering-carts and sheds		2,300	
No. 1 Hose-house, land (4,312 feet)		-,	
and building \$2,300	00		
Furniture 400			
John E. Wool hose-carriage and			
apparatus 2,000	00		
		4,700	00
No. 2 Hose-house, land (5,400 feet)		1,100	,,
and building \$7,500	00		
Furniture 300			
Winter Hill hose-carriage and			
apparatus 2,000	00		
		9,800	00
No. 3 Hose-house, land (5,226 feet)		,,,,,	
and building \$9,000	00		
Furniture 300			
George H. Foster hose-carriage			
and apparatus 2,000	00		
R. A. Vinal hook-and-ladder			
truck and apparatus 3,400	00		
Prescott hook-and-ladder truck			
and apparatus 100	00		
		14,800	00
No. 4 Hose-house, land (9,100 feet)			
and building : \$11,000	00		
Furniture 400	00		
George O. Brastow hose-car-			
riage and apparatus 2,000	00		
Relief hose-carriage 600	00		
	_	14,000	00
			_
Amount carried forward	•	\$665,653	43

APPENDIX TO TREASURER A	AND	COLL	ECTO	R'S	REPORT.	45
Amount brought forward .	•	•	•		\$665,653	43
Fire-alarm telegraph		•			15,800	00
Police-station, land (15,232 fee	et)					
and building (Bow Street)		\$4	0,000	0		
Furniture			3,000	00		
					43.000	00
Prospect Street, land (7,918 feet)	and	l build	ing		7,000	00
Public park (cost \$212,993.20)			• ,	•	125,000	00
Joy Street, land (2,960 feet) .	,	•	•		500	00
Walnut Hill, land (10,890 feet)	0	•			1,000	00
Elm Street, land (18,000 feet)					3,600	00
Ledge-land on Bond Street (39,73	2 fee	et).			2.500	00
Holland Street (5 acres, 6,80	6 fee	et).		0	12,000	00
Somerville Avenue (39,456 fe	eet)		•	0	5,000	00
Gravel-land in Waltham (about 3a	5 ac	res)			15,000	00
Gravel-land in Wakefield (about 1	1 ac	eres)			5,000	00
Gravel-land in Winchester (about	2 ac	eres)			500	00
Somerville water-works (cost \$345	2,608	3.76)			341,000	00
Oliver Street, land (63,069 feet)					7,500	00
Whipple Street, land, lots Nos. 3	0 a	nd 31	(15,2)	240		
feet)			•	•	388	27
Total value of public property			2	S	1,250,441	70

TABLE B FUNDED DEBT, DEC. 31, 1886.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
1882.	City	423 to 437,	2	1887.	¢1.000	#15 000
July 1,	City,	438,	5	July 1,	\$1,000	\$15,000 500
1880. Oct. 1, 1881.	Water,	37 to 45,	66	Oct. 1,	1,000	9,000
April 1, Oct. 1,	City,	373 to 412,	"		1,000	40,000 500
1882.	"	417 to 422,	٠.	1888.	1,000	6,000
July 1, 1884.	66	439 to 461,	66	July 1,	1,000	23,000
Oct. 1, 1881.	66	467 to 507,	4	Oct. 1, 1889.	1,000	41 000
Jan. 1, 1880.	Water,	57 to 65,	5	Jan. 1,	1,000	9,000
Oct. 1, 1884.	66	46 to 54,	66	Oct. 1,	1,000	9,000
Oct. 1, 1880.	City,	508 to 575,	4	1890.	1,000	68,000
Oct. 1, 1884.	Water,	55,	5	Oct. 1,	9,000	9,000
Oct. 1,	City,	576 to 646,	4	1891.	1,000	71,000
1881.	٠.	647 to 720,	66	Oct. 1, 1892.	1,000	74,000
Jan. 1, Oct. 1, 1884.	Water,	66 to 76, 78 to 88,	5	Jan. 1, Oct. 1,	1.000	11,000 11,000
Oct. 1, 1885.	City,	721 to 798,	4	1893.	1,000	78,000
July 1, Oct. 1, 1884.	Water,	856 to 880, 89 to 99,	5	July 1, Oct. 1,	1,000 1,000	25,000 11,000
Oct. 1, 1881.	City,	799 to 852,	4	1894.	1,000	54,000
Oct. 1, 1878.	Water,	100 to 111,	5	Oct. 1, 1895.	1,000	12 000
Jan. 1,	City.	335, 336,	66	Jan. 1,	37,000 1,000	37,000 1,000
1879.	66	338,	6.6	66 66	2,000	2,000
Jan. 1,	Water,	34,	66	"	25,000	25.000
66 66	City,	339,	6.	66 66	12,000	12,000
	66	340, 341,	66	66 66	1,500 1,500	1,500 1,500
	Amount	carried forward .				\$657,000

TABLE B — Continued.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
1880.	Amount	brought forward.		1895.		\$657,000
Jan. 1,	City,	346,	5	Jan. 1	\$2,000	2,000
"	""	347,			1 000	1.000
"	66	348,	66	"	5,500	5,5(1)
1885.						
July 1,	٠,٠	881,	6.6	66 66	54,000	54,000
	66	882,	6.6	66 66	1.500	1,500
1876.	66	100	-1	A	2= =00	95 500
April 1,		189,	$5\frac{1}{2}$	April 1,	35,500	35,500
Oct: 1	66	190 to 194,	5	66 66	5,000	25,000
1879.		195 to 334,			1,000	140,000
April 1,	66	343,	66	66 66	4,000	4,000
Oct. 1,	66	344,	66	66 66	8.000	8,000
"	66	345,	66	66 66	25,000	25,000
1880.		010,			2.7,000	20,000
Oct. 1,	66	351,	66	66 66	1,000	1,000
., .,	66	352,	6.6	"	42,500	42,500
1881.		,			12,000	12,000
Oct. 1,	66	414,	66	66 66	45,000	45,000
	66	415,	6.6	66 66	1,000	1,000
1882.		, '			'	_,
Oct. 2,	66	463,	66	"	45,000	45.000
	66	464,	66	66 66	2,000	2,000
1883.						
Oct. 1,	66	466,	44	66 66	50,000	50,000
1884.						
Oct. 1,	. "	854,	66	66 66	52,000	52,000
	66	855,	66	66 66	3,000	3,000
1886.						
April 1,	66	883,	66	66 66	1,000	1,000
(ct. 1,	66	884,	. "	66 66	60,000	60,000
1883.	Water	110 4 - 104	. 6	7.	1 000	10.000
July 1,	Water,	112 to 124,		July 1,	1,000	13,000
1876. July 1,	Corron	1 40 7	66	1896.	F 000	95 000
1882.	Sewer,	1 to 7,	1	July 1,	5,000	35,000
July 1,	Water,	125 to 136,	66	66 66	1,000	12,000
66 66	11 461,	137,	66	66 66	500	500
		101,		1897.	300	900
	66	138 to 151,		July 1,	1,000	14,000
		100 00 101,		1898.	1,000	14,000
66 66	66	152 to 166,	66	July 1,	1,000	15,000
		10 200,		1899.	1,000	10,000
"	Water,	167 to 181, `	66	July 1,	1,000	15.000
"	46	182,	66	""	500	500
				1900.		
"	66	183 to 194,	66	July 1,	1,000	12,000
	Amount	carried forward.				\$1,378,000
		J				

TABLE B - Concluded.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomi- nation.	Amount.
1000	Amount	brought forward.		1000		\$1,378,000
1882. July 1, 1884.	Water,	195,	5	1900. July 1,	\$500	500
Oct. 1,	4.6	200 to 202,	4.	Oct. 1, 1901.	1,000	3,000
1885.	6 6	203 to 212,	6 6	Oct. 1,	1,000	10,000
July 1,	6 6	214 to 219,	66.	Julv 1, 1902.	1,000	6,000
1886.	6 6	220 to 226,	6.6	July 1,	1,000	7,000
July 1,	6.6	229 to 2°8,	66	1903.	1,000	10,000
66 66	6 6	239 to 256,	66	July 1,	1,000	18,000
1055	6.6	257 to 266,	6 6	1904. July 1.	1,000	10,000
1877. Oct. 1,	66	33,	5	Oct. 1,	5,000	5,000
1879. Jan. 1,	66	35,	66	1905. Jan. 1,	5,000	5,000
1885. July 1,	6.6	227,	66	66 66	7,000	7,000
1876. April 1,	6.6	29,	$5\frac{1}{2}$	April 1,	4,500	4,500
1880. Oct. 1,	66	56,	5		5,500	5,500
1881. Oct. 1,	66	77,	66	66 66	6,000	6,000
1882. Oct. 2,	6.6	196,	6.6	66 66	6,500	6,500
1883.	6.6	197,	6 6	66 65	1,000	1,000
Oct. 1,	66	198, 199,	66	66 66	6,500 1,000	6,500 1,000
1884. Oct. 1,	66	213,	6.6	66 66	7,000	7,000
1886. April 1,	6.6	228,	46	66 66	7,500	7,500
1876. July 1,	66	30 and 31,	$5\frac{1}{2}$	1906. July 1,	5,000	10,000
1886. July 1,	6.6	267 to 276,	4	1907. July 1,	1,000	10,000
	Total	Funded Debt				\$1,525,000

TABLE C.

STATEMENT OF ACCOUNTS, SHOWING APPROPRIATIONS, EXPENDITURES, ETC., TO DEC. 31, 1886.

APPROPRIATIONS.

CREDIT.

Taxes, amount assessed for co	urrent	expe	nses .		\$382,925 0	0
Property and debt balance	•	•	• •	•	116,500 0	0
					@400 405 O	-
	D				\$499,425 0	10
	DEBI	Τ.				
Broadway Park maintenance	•	•	\$1,000			
Fire Department	•	•	24,000	00		
Health Department .	•	•	3,500	00		
Highways	•	•	32,000	00		
Indigent soldiers and sailors	•	•	600	00		
Interest		•	55,000	00		
New fire hydrants	•		1,000	00		
Police	•		23,500	00		
Police station incidentals		•	1,500	00		
Public Library		•	2,500	00		
Printing and stationery .		•	3,000	00		
Salaries		•	21,900	00		
School contingent	•	•	13,000	00		
School fuel	•	•	5,200	00		
Schoolhouse incidentals .	•		8,000	00		
School teachers' salaries	•		76,000	00		
Schoolhouse in Ward Three		•	8,500	00		
Schoolhouse in Ward Four	•	•	8,500	00		
Sewers	•	•	8,000	00		
Sidewalks	•	•	4,000			
Sinking fund contributions	•	•	40,725	00		
Street lights	•		9,500			
Support of poor		•	15,000			
Watering streets			3,000			
Water maintenance .	•		14,000			
Renewals of funded debt.			116,500			
					\$499,425 0	00

CASH.

CASH.	C	
	CREDIT.	
Broadway Park maintenance	•	\$932 29
County of Middlesex	•	12,076 37
Fire Department	•	. 24,057 03
Funded debt	•	. 116,500 00
Health Department	•	3,588 64
Highways	•	. 34,792 26
Indigent soldiers and sailors	•	
Interest	•	62,328 33
Miscellaneous		8,452 68
New fire hydrants	•	995 84
Police		26,327 43
Police station incidentals.		1,950 51
Printing and stationery .		2,773 43
Public Library		5,353 36
Public Library building .	• • •	258 75
Salaries		22,277 40
School contingent		13,994 14
School fuel		4,928 94
Schoolhouse incidentals .		8,732 49
School teachers' salaries .		80,942 26
Schoolhouse in Ward Three		7,831 74
Schoolhouse in Ward Four.		. 7,683 32
Sewers		16,401 61
Sidewalks		7,229 94
Street lights		8,862 37
Support of poor		14,341 83
Sinking fund contributions.		40,725 00
State of Massachusetts .	• •	20,085 00
State aid		3,709 00
Sundry persons		87 50
Temporary loans		500,000 00
Watering streets		7,931 72
Water maintenance		16,885 05
Water services		6,235 55
Overplus on tax sales		504 10
Amount carried forward	. 9	1,090,701 88

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 51

Amount brought forward	<i>l</i> .	\$1,090,701	88
Water-loan interest	• ;	. 16,538	65
Balance to debit in account 1	.887	. 9,579	75
			\$1,116,820 28
	DEBIT	•	
Balance		\$8,075	76
Broadway Park maintenance		10	05
Funded debt		116,500	00
Fire Department		89	50
Health Department .		303	00
Highways		2,673	61
Highway betterment assessm	ents .	2,860	87
Interest		23,652	95
Miscellaneous		1,702	55
Overplus on tax sales .		635	93
Police	•	2,596	05
Police station incidentals		418	33
Public Library	•	2,041	03
Printing and stationery.	• (. 3	00
Real-estate liens		30	79
School contingent	•	. 298	56
Schoolhouse incidentals.		26	57
Sewers		. 175	05
Street lights		409	98
~	•	. 2,481	77
State of Massachusetts, Stat		•	
State of Massachusetts, indig	gent sol	<u>.</u>	
diers and sailors.	•	. 494	00
Sidewalk assessments .	•	. 1,610	42
Sewer assessments		7,771	
Taxes		. 427,531	54
Temporary loans		475,000	00
Water maintenance .		. 2,666	83
Water services	•	. 818	28
Water-service assessments	•	. 5,889	27
Watering streets	•	. 4,891	
Water-loan interest	•	. 21,444	
			\$1,116,820 28

BROADWAY PARK MAINTENANCE.

BROADWAY PARK MAINTENANC	E.		
Credit.			
Appropriations, amount assessed		•	\$1,000 00
Cash, received of R. W. Baldwin, for hay	•		10 05
			<u> </u>
Debit.			\$1,010 05
Cash, paid Joseph Breck & Sons, repair-			
ing lawn mowers, etc	\$25	80	
F. Dooris, repairing lawn mower	#20	50	
J. A. Durrell, hardware	6	31	
H. W. Raymond, hardware		71	
Hugh A. Carney, plants	30	00	
E. R. Perham, expressing	2	50	
Dennis Foley, lighting lamps	13	00	
Highways account, labor, teaming,			
etc	847	47	
	\$932	29	
Excess and deficiency, balance to credit			
of account	77	76	** ** **
			\$1,010 05
COUNTY OF MIDDLESEX.			
CREDIT.			
Taxes, amount assessed	•	•	\$12,076 37
Debit.			
Cash, paid county tax			\$12,076 37
EVORCE AND DEBICIONOV			
EXCESS AND DEFICIENCY.			
Credit.			
Balance from 1885	•	•	\$8,054 98
Broadway Park maintenance, credit bal-			
ance of account	\$77		
Fire Department, credit balance of account	32	47	
Amounts carried forward	\$110	23	\$8,054 98
The state of the s	#220		#0,002

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 53

Amounts brought forward	\$110	23 \$8,054 98
Health Department, credit balance of		
account	214	36
Highways, credit balance of account .	81	35
Indigent soldiers and sailors, credit bal-	-	
ance of account	137	00
Interest, credit balance of account.	7,335	36
Miscellaneous, credit balance of account,	, 1,351	95
New fire hydrants, credit balance of		
account	4	16
Police station incidentals, credit balance	;	
of account	267	82
Printing and stationery, credit balance of		
account	229	57
School fuel, credit balance of account .	271	06
	509	51
Sidewalks, " " " "	368	
Street lights, " " "	1,047	
Support of poor, credit balance of account		94
Water maintenance, credit balance of		
account		72
Water-loan interest, credit balance of		
account		76
Public Library building, credit balance of		
account	52	80
		<u>20,879 58</u>
		\$28,934 56
Debit.		,
Miscellaneous, transferred	\$8,054	0.8
•	20,879	
balance to credit in account 1007.		\$28,934 56
MILITAR DEDM		, \$20,004.00
FUNDED DEBT.		
CREDIT.		
Balance from 1885	•	\$1,525,000 00
Cash, received for sale of		
City-loan Bond, No. 883.	\$1,000	
" " 884	60,000	00
4	004 005	00 04 707 000 00
$A mounts\ carried\ forward$.	\$61,000	00 \$1,525,000 00

	brought fo	orward	•	\$61,000	00 \$3	1,525,000	00
Water-loa	n Bond,	No. 228		7,500	00		
66	" No	os. 229 to 2	238,	10,000	00		
66	66 6	6 239 to 2	256,	18,000	00		
66	66' 6	6 257 to 2	266,	10,000	00		
66	66 6	6 267 to 2	276,	10,000	00		
						116,500	00
			•		\$1	,641,500	00
		DEI	BIT.				
Cash, paid:—							
City-loan	Bonds, N	os. 175 to	182,	\$40,000	00		
66	6.6	" 183 to 3	185,	15,000	00		
66	" N	To. 186.	•	5,000	00		
66	66	" 187.	•	1,000	00		
Water-loa	n Bonds,	Nos. 23 to	27,	50,000	00		
66	66	No. 28	•	5,500	00		
			-	\$116,500	00		
Balance to cre-	dit in acc	eount 1887		1,525,000			
Balanco to ore		ount root	•			,641,500	00
					# -	,011,000	
FIRE DEPA							
	RTMEN	1T.	•				
PIME DEE	RTMEN		DIT.				
		Cre	DIT.			\$24_000	00
Appropriations Cash, received	s, amoun	Cre t assessed		· ·	•	\$24,000	00
Appropriations	s, amoun l of L. V	Cre t assessed	ng, tele		. 50	\$24,000	00
Appropriations Cash, received graph p	s, amoun l of L. V	Cret assessed W. Mannin	· ng, tele	. \$0	50 00	\$24,000	00
Appropriations Cash, received graph p	s, amound of L. Vole . J. Buxton	CRE t assessed W. Mannin n, old wood	· ng, tele	. \$0 . 2		\$24,000	00
Appropriations Cash, received graph p Edward N Lorenzo V	s, amound of L. Voole. V. Buxton	Cret assessed W. Mannin	ng, tele	\$0252	00	\$24,000	00
Appropriations Cash, received graph p Edward N	s, amound of L. Voole. V. Buxton	Cret assessed W. Mannin	ng, tele	\$0252	00 00		50
Appropriations Cash, received graph p Edward N Lorenzo V	s, amound of L. Voole. V. Buxton	Cret assessed W. Mannin	ng, tele	\$0252	00 00	89	50
Appropriations Cash, received graph p Edward N Lorenzo V	s, amound of L. Voole. V. Buxton	Cret assessed W. Manning	ing, tele	\$0252	00 00		50
Appropriations Cash, received graph p Edward N Lorenzo V A. M. Pre	s, amound of L. Voole . V. Buxton W. Dow, escott, ho	Cret assessed W. Manning. a, old wood manure orse DE	ing, tele	. \$0 . 2 . 52 . 35	00 00	89	50
Appropriations Cash, received graph p Edward N Lorenzo V A. M. Pro	s, amound of L. Voole . V. Buxton W. Dow, escott, ho	Cret assessed W. Manning. a, old wood manure orse DE	ing, tele	. \$0 . 2 . 52 . 35	00 00 00	89	50
Appropriations Cash, received graph p Edward N Lorenzo V A. M. Pro	s, amound of L. Voole . J. Buxton W. Dow, escott, ho	Cre t assessed W. Mannin . n, old wood manure orse . De opkins, ch	ng, tele	. \$0 . 2 . 52 . 35	00 00 00	89	50
Appropriations Cash, received graph p Edward N Lorenzo V A. M. Pro Cash, paid Jan neer Nathaniel	s, amound of L. Voole . J. Buxton W. Dow, escott, ho	Cret assessed W. Manning. a, old wood manure orse DE	ng, tele	. \$0 . 2 . 52 . 35 	00 00 00	89	50
Appropriations Cash, received graph p Edward N Lorenzo V A. M. Pro	s, amound of L. Voole . J. Buxton W. Dow, escott, ho	Cre t assessed W. Mannin . n, old wood manure orse . De opkins, ch	ng, tele	. \$0 . 2 . 52 . 35	00 00 00	89	50

Amounto Lacoralt formand	ë1 500	00	¢24 000 50
Amounts brought forward			\$24,000 00
Steamer engineer			
Seven drivers			
Henry A. Angier, substitute driver.		00	
Lucius B. Angier, " ".		54	
E. J. Brown, " ".		87	
William H. Dennis, " ".		42	
Charles E. Kirkpatrick, substitute		42	
driver		15	
William A. Perry, substitute driver.			
George C. Tucker, ""			
Steamer Engine Company . ,			
John E. Wool Hose Company.			
Winter Hill Hose Company			
~ ~			
George H. Foster Hose Company .			
George O. Brastow Hose Company.	091	00	
R. A. Vinal Hook-and-ladder Com-	1 0 5 0	00	
pany			
City of Boston, water for hydrants.			
water for houses .		70	
Seward Dodge, blacksmithing and		~0	
horseshoeing			
Charles Maguire, horseshoeing .			
Timothy O'Brien, ".			
0 ,	31		
W. H. Richardson, ".	34		
Everett E. Onley, "	3		
Cook Rymes & Co., ".		75	
J. Leland, wheelwright work		50	
E. Spalding, harness work	83		
William Mitchell, harness work .	18		
Charles E. Barry, " ".	7	50	
Joseph Cogan, hames, etc	66	00	
E. B. Morgan, painting	96	75	
J. Q. Twombly, "	11	15	
E. H. Buxton, "	14	50	
J. C. Dyer, glazing	5	10	

Amounts carried forward . \$17,397 99 \$24,089 50

Amaunto hanialit famuund	\$17 207	0.0	¢24 000	50
Amounts brought forward .	\$17,397	50	\$24,089	00
A. Fisher, glazing		75		
W. S Walker, "		38		
0 /				
D. I'l Duombum,		25		
Horace P. Ewell, carpenter work,		75		•
Diljan Wanter,	204			
James F. Davlin, plumbing		50		
10.8cr as Daponey		72		
•		75		
H. W. Covell, stove work		56		
J. E. Parsons, "		00		
D. J. Bennett, repairing wagon		75		
David W. Croeker, " "		25		
E. Teel & Co., " ".		00		
Union Square Carriage Company,				
repairing wagon		35	•	
William T. Henderson, repairing ap-	•			
paratus	. 85	50		
Kendall & Roberts, repairing steamer		70		
Charles Holmes & Son, furnace and	l			
hardware	179	95		
H. W. Raymond, hardware, etc.	. 19	11		
Gardner & Chandler, "	. 24	00		
Howe & Flint, "	. 4	64		
Whitney & Snow, ".	. 1	84		
J. A. Durell, "	. 3	33		
W. L. Snow, "	. 16	01		
Broad Gauge Iron Works, hardware,	,			
etc	. 3	50		
L. M. Ham & Co., hardware, etc.	. 69	00		
T. Ivers & Son, chains		25		
American Steam Gauge Company	,			
repairing gauge		00		
Crosby Steam Gage and Valve				
Company, oiler, etc		25		
Smith & Anthony Stove Company,				
heatérs	0.0	64		
				-

. \$18,251 85 \$24,089 50

Amounts carried forward

*				
Amounts brought forward .	. \$18,251	85	\$24,089	50
Boston Woven Hose Compan	у,			
hose, etc	. 62	25		
Silsby Manuf. Company, hose, etc	2	80		
Bishop & Brother, ladders, etc.	. 105	00		
George K. Paul & Co., waste.	. 11	00		
Edwin Rogers, fire-alarm apparatu	ıs, 918	24		
Abiel Pevey, zincs and coppers	. 95	40		
Pevey Brothers, "	. 23	20		
Albert L. Russell, batteries .	. 6	25		
J. J. Herne, sawdust	. 1	75		
S. D. Hicks & Son, copper .	. 6	00		
Andrew S. Jackson, supplies .	. 75	34		
William Spear, scrapers	. 3	00		
Leander Barber, Jr., brooms .	. 6	00		
Murphy, Leavens & Co., dusters	. 9	80		
Gilman & Co., wagon	. 50	00		
J. A. McCarthy, caravan .		00		
Joseph J. Giles, furniture .		10		
Jackson, Caldwell & Co., furniture	. 10	00		
William Scheubeler, dry goods	. 18	00		
McCrillis & Kendall, bedding .	. 19	06		
J. F. Burton, papering	. 1	99		
Flynn Brothers, moulding, etc.	. 29	40		
Enoch Robinson, locks and keys	. 4	00		
S. J. Wood, keys, etc	. 1	20		
John L. Crafts, rope, etc	. 49	64		
TT 1 TO 11	. 14	35		
T. Spellman, soap	. 26	12		
Charles Bartley, oil, etc	. 4	03		
D. E. Hennessey, salt, etc	. 1	25		
J. P. Squire & Co., oil	. 12	47		
George Dunbar & Co., compound	d,			
etc	. 52	80		
Hall's English Food Company, feed		00		
Elias Lathrop, hoof ointment.	. 4	00		
Wetherbee & Co., ".	. 3	50		
Thomas Hollis, vitriol, etc	. 135	69		

Amounts carried forward . . \$20,089 48 \$24,089 50

Amounts brought forward .	. \$20,089	48	\$24,089	50
George H. Cowdin, drugs .	. 5	45		
James E. Abbott, veterinary ser	r-			
vices	. 45	20		
Lewis Putnam, veterinary services	. 6	00		
H. B. Wells, "	. 10	00		
John E. Hill, foot pads	. 5	00		
Howe Curry-comb Company, curry				
combs		50		
A. M. Prescott, hay, straw, etc.	. 856	93		
E. R. Perham, ""		52		
Fulton O'Brion, " "	. 118	84		
Nathan Tufts & Son, grain .	. 512	72		
G. M. Winslow & Co., fuel .		92		
B. F. Wild & Co., ".		74		
New England Telephone and Tele				
graph Company, rentals and toll		15	`	
Charlestown Gas Company, gas		3 74		
Cambridge Gas Lighting Company				
gas · · · ·		46		
Nelson & Thompson, carriage hire		00		
J. A. McLane, use of horse .		00		
R. T. Blackwell, use of pung.		00		
Sturtevant Brothers, horses an				
horse hire		50		
Welch & Hall, horse		00		
Dennis Ryan, labor		00		
Sundry persons, extra fire duty		50		
N. C. Barker, gas piping .	. 1/	6 00		
Mrs. Calvert, washing .	0	1 02		
Mary A. Brown, ".		75		
Thomas H. Daly, ".		1 87		
E. W. Ring, "		35		
Samuel H. Stevens, washing.		96		
J. H. Cauley, meals		1 03		
H. T. & W. S. Durgin, ice		5 00		
Boston Ice Company, ice		00		
Doston 200 Company, 100			Marine Province Co.	
Amounts carried forward .	. \$23,80	1 63	\$24,089	50

APPENDIX TO TREASURER	AND	COL	LECTO	R'S	REPORT.	59
Amounts brought forward	•	. \$	23,801	63	\$24,089	50
Dexter F. Bennett, premium			•			
surance		•	48	7 5		
W. C. Crane, premium of	ins	ur-				
ance		•	75			
Aaron R. Gay & Co., station			36			
J. O. Hayden & Co., printing	g, etc	3	71			
Day's Express, expressing	•	•	11			
Blackall's Express, "	•	•		25		
W. J. London, "	•	•		25		
Perham's Express, "	•	•	3	45		
Thorpe's Express, "	•	•		55		
Highways account, crushed st	tone	•	6	00		
		Ş	24,057	03		
Excess and deficiency, balance to	cre	edit	·			
of account	•	•	32	47	*	~ ^
		_			\$24,089	50
HEALTH DEPARTMENT.						
CRED	IT.				1	
Appropriations, amount assessed		•		•	\$3,500	00
Cash, received of George I. Vince						
mits to keep swine and goa						
collect grease			\$293	00		
Highways account, permit t		_				
swine	•	•	10	00	000	00
		-			303	
·					\$3,803	00
Der	BIT.					
Cash, paid Wm. H. Brine, inspec	ctor		\$1,000	00		
Martin Gill, collecting ashes			750			
Jeremiah McCarthy, "		٠	1,129	96		
E. R. Perham, "			-1	25		
W. H. Whitcomb, "		•		75		
Highways account, "	•	•		87		
Sewers account, "	•			50		
Henry Gray, collecting offal	•	•	450	00		
Amounts carried forward			\$3,333	33	\$3,803	00

Amounts brought forward	\$3,333	33	\$3,803	00
Sundry persons, burying dead ani-				
mals	62	00		
Geo. H. Cowdin, peppermint tubes,	19	36		
Burt & Henshaw, sulphur	5	28		
Thomas Waterman, vaccine virus .	14	50		
Photo-Electrotype Company, maps.	9	00		
George D. Goodwin, drain pipe .	5	63		
J. O. Hayden & Co., printing .	33	60		
Aaron R. Gay & Co.; stationery .	11	25		
E. S. Tobey, rent of post-office box,	5	00		
L. H. Brown, carriage hire	11	50		
Joshua Eldridge, officer's fees	1	50		
Dennis Callahan, labor	23	63		
Thomas Dorsey, labor	39	37		
Andrew Desmond, labor	3	94		
James F. McCarthy, labor	. 8	7 5		
Mrs. Lacey, labor	1	00		
				
	\$3,588	64		
Excess and deficiency, balance to credit		•	•	
excess and deficiency, balance to credit of account	214	36	•	
•	214	36	\$3,803	00
of account	214	36	\$3,803	00
of account	214	36	\$3,803	00
of account	214	36	\$3,803	00
of account	214	36	\$3,803	
of account	214	36		00
of account	214	36	\$32,000	00
of account	•	36	\$32,000	00
of account	* \$5		\$32,000	00
of account	\$5		\$32,000	00
of account	\$5 18	00 09	\$32,000	00
of account	\$5 18 18	00 09 25	\$32,000	00
of account	\$5 18 18 3	00 09 25 42	\$32,000	00
of account	\$5 18 18 3 11	00 09 25 42 35	\$32,000	00
of account	\$5 18 18 3 11 15	00 09 25 42 35 64	\$32,000	00
of account	\$5 18 18 3 11 15 18	00 09 25 42 35 64 45	\$32,000	00
HIGHWAYS. CREDIT. Appropriations, amount assessed	\$5 18 18 3 11 15 18	00 09 25 42 35 64 45 50	\$32,000 200	00 00
of account	\$5 18 18 3 11 15 18	00 09 25 42 35 64 45 50 48	\$32,000	00 00

Amounts brought forward \$134 18 \$32,200 (00
Third Universalist Church, edge-	
stones	
D. W. Lowell, edgestones 30 19	
John P. Squire, " 35 35	
J. A. Tapley, " 14 79	
Peter Murray, " 15 63	
John Manning, " 39 47	
T. F. Cummings, sidewalk 6 15	
Albert E. Hughes, " 4 65	
S. R. Chace, ''	
F. A. Titus, " 4 65	
Town of Wakefield, gravel 15 20	
E. B. Morgan, filling 27 30	
Dennis Collins, crushed stone . 1 50	
Christopher Burke, ledge stone . 41 10	
John E. Sylvester, loam 25 00	
Farrell Foundry Machine Company,	9
old iron, etc 65 54	
George McKenna, old carts 25 00	
John Kennedy, old wagon 5 00	
R. M. Baldwin, hay 18 85	
Charles H. North, hogs 224 89	
Christopher Burke, pigs 8 00	
Arthur Murley, rent 64 00	
Thomas Ormand, rent 72 00	
Broadway Park maintenance, labor	
and teaming 847 47	
Sidewalk account, materials and	
teaming 829 41	
Health Department, removing ashes, 87	
Miscellaneous account, driveway City	
Hall 17 64	
Fire Department account, crushed	
stone 6 00	
Schoolhouse incidentals account,	
crushed stone 1 50	
2,673	31
	_
Amount carried forward \$34,873	31

Amount brought forward	•			•	\$34,873	61
• Deb	IT.					
Cash, paid laborers	•	4	\$20,399	62		
Frank G. Williams, salary as	supe					
intendent of streets .	_		1,500	00		
Frank G. Williams, board of	horse	s,	417	17		
Nathan Tufts & Son, grain, e	tc.		683	96		
S. W. Thaxter & Co., "			68	40		
R. W. Willey & Co., "			281	40		
Proctor Brothers, "			373	12		
A. M. Prescott, "			8	92		
C. L. Stevens, "			5	04		
James E. Whitaker & Co., ha	у		296	45		
Joseph Breck & Son, seed	•	•	6	95		
Timothy O'Brien, horseshoein	g		387	34		
A. Clement, "			7	01		
C. W. Ingalls, "			2	66		
P. O'Neil, "		•	4	65		
Seward Dodge, blacksmithing	•		100	55		
F. Dorris, "		•	241	46		
Everett E. Onley, "	•	•	2	00		
H. G. Collins, "	•		9	45		
B. F. Robinson, "	•	•	2	61		
F. Leland, wheelwright work	•		19	25		
John Kennedy, repairing wage	on	•	10	75		
David W. Crocker, repairing	carts		113	50		
N. L. Pennock, harness work	•	•	16	00		
E. Spalding, ""	•	•	49	00		
James Forgie & Son, " "	•,		54	55		
James E. Crawford, carpenter	work	Ξ,	89	00		
Wm. H. McCarthy, "	66		81	00		
R. A. Melvin & Co., "	66		19	18		
John R. Thompson, "	66		5	10		
J. Q. Twombly, painting			13	24		
James A. Davlin, plumbing			86	72		
J. A. Durell, hardware .			26	79		
H. W. Raymond, ".			25	26		

.\$25,408 10 \$34,873 61

Amounts carried forward

Amounts brought forward			\$25,408	10	\$34,873 61
W. L. Snow, hardware.		,		84	, , , , , , , , , , , , , , , , , , ,
Whitney & Snow, "		ĺ	56		
Howe & Flint, ".		·		39	
Cook, Rymes & Co., tools			103		
Parker & Wood, "		·		76	
Underhill Bros., "		·		30	
Hussey, Howe & Co., steel				50	
Farrell Foundry and Machin	e Con	n-			
pany, plates for crusher			218	43	
Guptell & Dove, iron screens		·		44	
Osgood & Hart, repairing roll		·		23	
Knowles Bros., shovels, etc.				10	
James M. Cusker, handles		·		62	
Charles Gott, snow-ploughs		•		00	
Hub Forge Company, horsesh		۰		50	
A. S. Symmes, axle		Ů		75	
Crosby Steam Gauge and		ze.	· ·	, ,	
Company, repairing gauge			1	25	
Bay State Belting Company		k-	_		
ing	_		2	36	
M. D. Jones, drinking fountain					
Henry F. Jones, repairing fou				90	
Union Glass Company, tubes			·	60	
S. L. Holt & Co., washers, et		•	3	00	
W. Emery & Co., sash .		·		40	
George D. Goodrich, drain pi			6	81	
John F. Ayer, lumber .	•	·			
Leander Barber, brooms				50	
John P. Downey, paving					
edgestones, etc			2,461	45	
John P. Downey, labor at W					
gravel bank	•		527	00	
Jeremiah McCarthy, stone			1,341		
Frank Buttimer "			85		
Sanborn & Hatch, bricks			279		
John Thresher, "				50	
R. H. Carpenter, watering tro	ugh	•	0.4	00	
	5~				

Amounts brought forward .		. \$31,263	76	\$34,873	61
**** *** ***		. $\phi 01,200$		\$9 4 ,010	01
George H. Sampson, powder, e		409			
R. K. Carpenter, car mover .			00		
75 77 0			00		
G. W. Bragdon, filing saws .			75		
~ =	•		50		
Samuel Walker & Co., oil .	•		60		
			44		
· ·		^	00		
J. E. Litchfield, vinegar	•	_			
Charles H. North & Co., salt.			60		
Olney Bros, oil			70		
Dexter G. Benner, mustard .			20		
**	•		22		
E. B. Sears, robe			50		
H. Wellington, fuel		. 309			
· · · · · · · · · · · · · · · · · · ·	•		60		
Charles Booth, weighing hay.	•		20		
Whitney West, mowing	•		75		
William Hamilton, "	•		00		
Christopher Burke, teaming .			00		
Christopher Burke, labor at Wa	ltham				
gravel bank	•	453			
· · · · · · · · · · · · · · · · · · ·	•	256			
George McKenna, " .	•		25		
Henry Gray, offal			00		
Health Department, permit to	keep)			
swine	•	. 10	00		
Charles H. Crane, drugs			95		
Cheney & Myrick, "	, •	23	57		
James E. Abbott, veterinary ser	vices	, 53	00		
Henry Smith, "	. 66	3	00		
New England Telephone and	Tele-				
graph Company, rentals and	tolls,	64	60		
Western Union Telegraph Com	pany,	,			
telegrams		. 1	24		
Blackall's express, expressing.		3	00		
E. R. Perham, ".		1	70		
					_

Amounts carried forward . . \$33,806 98 \$34,873 61

APPENDIX	TO	TREASURER	AND	COLLECTOR'S	REPORT.	65
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APPENDIA TO IREASURER AND COLLECTORS F	REFORT. 05
Amounts brought forward . \$33,806 98	\$34,873 61
A. L. Sanborn, carriage hire 10 00	
H. W. Chase, " " 4 50	
Boston and Providence Railroad,	
freight 9 36	
Aaron R. Gay & Co., stationery . 46 50	
J. O. Hayden & Co., advertising . 49 80	
W. C. Crane, premium of insurance 15 00	
Charles S. Robertson, premium of	
insurance	
Middlesex Registry of Deeds, re-	
cording 3 05	
H. D. & W. S. Durgin, ice 30 00	
Town of Winchester, tax 10 95	
Town of Wakefield, " 25 26	
City of Waltham, " 114 75	
Town of Medford, half cost of main-	
taining Middlesex Avenue bridge 371 33	
City of Boston, water rates 57 78	
Silas D. Carter, refreshments 12 00	
\$34,792 26	•
Excess and deficiency, balance to credit	
of account 81 35	
	\$34,873 61
INDICENE COLDIERC AND CALLORS	
INDIGENT SOLDIERS AND SAILORS	
CREDIT.	
Appropriation amount account	\$600.00
Appropriation, amount assessed	\$600 00
State of Massachusetts (indigent soldiers and sail-	4.00 00
ors), one half of amount paid in 1886.	463 00
	\$1,063 00
DEBIT.	
Cash paid and an arrange 6000 00	
Excess and deficiency, balance to credit of account	
of account	\$1,063 00
	Ψ1,000 00

INTEREST.

CREDIT.

Appropriations, amount assessed	\$55,000 00
Real-estate liens, interest on titles to the	
city on property deeded for non-	
payment of taxes and assessments, \$13 47	
Cash, received on deposits in banks . 708 32	
On taxes and assessments 7,586 32	
Of State Treasurer, national bank	
tax 4,956 59	
Corporation tax 5,228 60	
Foreign ships tax 997 41	
On tax titles released 1 31	
Blake Brothers & Co., premium on	
bonds 4,174 40	
	23,666 42

· .	\$78,666 42
Debit.	
Cash, paid on funded debt:—	
\$35,500, one year at $5\frac{1}{2}$ per cent . \$1,952 50	
$61,000$, six months " $5\frac{1}{2}$ " . 1,677 50	
682,500, one year "5" . 34,125 00	
1,000, six months "5" . 25 00	
411,000, one year "4 " . 16,440 00	
\$54,220 00	
Less coupons unpaid 100 00	
\$54,120 00	
Sundry persons, coupons unpaid 100 00	
\$54,220 00	
#01,120 00	
Cach paid on temporary loans.	
Cash, paid on temporary loans: — Suffolk Savings Bank, on note of	
\$100,000, four months and three days at 23 per cent . \$939 58	
days at $2\frac{3}{4}$ per cent \$939 58	
Amounts carried forward \$939 58	\$78,666 42

Amounts brought forward \$939 58 \$78,666 42 Commonwealth of Massachusetts, on note of \$75,000, four months at 3 per cent
Commonwealth of Massachusetts, on note of \$75,000, four months at 3 per cent
note of \$75,000, four months at 3 per cent
per cent
Suffolk Savings Bank, on note of \$75,000, eight months at 3 per cent 1,500 00 Suffolk Savings Bank, on note of \$50,000, eight months at 3 per cent
\$75,000, eight months at 3 per cent
Suffolk Savings Bank, on note of \$50,000, eight months at 3 per cent 1,000 00 Commonwealth of Massachusetts, on note of \$125,000, eight months at 3 per cent 2,500 00 Commonwealth of Massachusetts, on note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt \$54,220 00 On temporary loans 8,208 33
\$50,000, eight months at 3 per cent 1,000 00 Commonwealth of Massachusetts, on note of \$125,000, eight months at 3 per cent 2,500 00 Commonwealth of Massachusetts, on note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt \$54,220 00 On temporary loans
Commonwealth of Massachusetts, on note of \$125,000, eight months at 3 per cent 2,500 00 Commonwealth of Massachusetts, on note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt
Commonwealth of Massachusetts, on note of \$125,000, eight months at 3 per cent 2,500 00 Commonwealth of Massachusetts, on note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt \$54,220 00 On temporary loans 8,208 33
note of \$125,000, eight months at 3 per cent 2,500 00 Commonwealth of Massachusetts, on note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt \$54,220 00 On temporary loans 8,208 33
3 per cent
Commonwealth of Massachusetts, on note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt \$54,220 00 On temporary loans 8,208 33
note of \$75,000, eight months at 3 per cent 1,500 00 \$8,208 33 On funded debt \$54,220 00 On temporary loans 8,208 33
3 per cent
On funded debt
On funded debt
On funded debt
On temporary loans 8,208 33
On temporary loans 8,208 33
On temporary loans 8,208 33
\$62,428 33
Water maintenance transferred . 1,000 00
Police station incidentals transferred . 300 00
Highways 200 00
Police
Schoolhouse incidentals
Watering streets 40 46
Salaries
School contingent
School teachers' salaries 4,942 26
Public Library 409 73
\$71,331 06
Excess and deficiency, balance to credit
of account 7,335 36
\$78,666 42

HIGHWAY BETTERMENT ASSESSMENTS.

CREDIT.

Cash, received of sundry persons	, ass	ess-						
ments	•		\$2,860	87				
Balance to debit in account, 1887			987	24				
					\$3,848 11			
Debit.								
Dalamas from 1995					#0 040 11			
Balance from 1885	• .	•	•	•	\$3,848 11			
MISCELLANEOUS.					•			
Cre	DIT.							
Excess and deficiency, transferred	l .		•		\$8,054 98			
Real-estate liens, costs on titles								
city on property deeded f	or n	on-						
payment of taxes and	ass	ess-						
ments			\$47	10				
Cash, received of sundry person	s, co	osts						
on property sold and prep	ared	for						
sale for non-payment of ta	xes :	and						
assessments	•		786	46				
On real-estate liens released	•	•	3	00				
Sundry persons, liquor licens	es	•	13	00				
M. F. Burns, county fees	•	•	2	00				
B. F. Johnson, answering	trus	tee						
writ	•	•	1	25				
Thomas Cunningham, milk	insp	ec-						
tor's fees	•	•	137	00				
Charles E. Gilman, city clerk	:-							
Marriage certificates .	•	•	160	50				
Billiard tables, licensed		•	4	00				
Liquor licenses	•	•	12	00				
Junk licenses	•	•	68					
Licensing dogs	•	•	190	60				
Auctioneers' licenses .	•	•	22	00				
			A1 C1C		***			
Amounts carried forward	٠	•	\$1,346	91	\$8,054 98			

APPENDIX TO TREASURER AND COLLECTOR'S	REPORT. 69
Amounts brought forward \$1,346 9 Recording mortgages and assign-	1 \$8,054 98
ments 302 74	1
menus	\$1,749 65
	\$9,804 63
Debit.	#
Cash, paid F. C. Fuller, carpenter work . \$32 2	5
L. Arnold, " " 48 3	
George W. Trefren, " 46 0	
Melvin & Chandler, " 49 3	
L. C. Duncklee, " 13 50	0
R. A. Stevens, " " 5 8	8
A. S. Arnold, " " 5 1	1 .
Harry Holt, " " . 8:	2
S. & C. H. Williams, " " 5	0
George M. Burckes, " " . 15 5	9 .
J. Q. Twombly, painting 31 6	2
J. M. Burckes, mason work 100 4	4
C. A. Legallee, plumbing 14 7	1
James F. Davlin, " 1 2	
Seward Dodge, blacksmithing 3 6	0
L. C. Seavey, slating 5 3	0
J. A. Merrifield, stove work 2 0	
Calvin I. Sawyer, whitewashing . 9 0	
A. A. Sanborn, steam fitting 44 3	
Ingalls & Kendricken, repairing	
boiler	9
A. M. Sibley, repairing boiler, etc 8 0	0
William Read & Son, ammunition . 49 1	3
G. W. Manning, labor on flag-staff . 48 6	9
Young, Caldwell & Odiorne, flag-	
staff 210 0	0
Fitch & Jay, iron work on flag-staff, 28 0	0
Bakers & Humphrey, halliards . 1 7	5
John L. Crafts, removing flag-staff . 48 0	0
C. S. Decker, awning 7 7	5
R. Sherburne, plate glass 4 1	
Amounts carried forward \$846 7	\$9,804 63

Amounts brought forward	\$846 77	\$9,804 63
Wm. Poole, shade	2 00	ĺ
Abram French & Co., water cooler.	10 80	
Justus Roe, steel tape		
Albert L. Russell, repairing lighter.	1 00	
H. W. Raymond, hardware	29 57	
William Hall & Co., "	4 13	•
Whitney & Snow, "	20 00	
Howe & Flint, "	23 67	
J. A. Durell, "	1 25	
A. J. Wilkinson & Co., hardware .	1 00	
Jackson, Caldwell & Co., cus-		
padores	6 00	
Hill & Langtrey, leather bag	5 25	
W. W. Winship, messenger's box .	5 50	
Walter S. Barnes, boxes		
Pulsifer, Jordan & Pfaff, paper .		
Frost & Adams, stationery		
J. O. Hayden & Co., advertising .	21 90	
L. D. Miller, polish	1 00	
Thomas Hollis, drugs, etc	4 55	
Charles Bartley, soaps, etc	13 50	
Brine & Norcross, brushes and combs		
W. Scheubeler, brushes and combs.		
J. H. Brooks, towels		
A. W. Mitchell, rubber stamp .	4 60	
Hall Rubber Company, mats	5 75	
Cambridge Gas Light Company, gas,		
City of Boston, water		
Geo. M. Winslow & Co., fuel.	103 32	
B. F. Wild & Co., fuel	140 44	
Wadsworths, Howland & Co., en-		
gineer's supplies	55 82	
Charles C. Hutchins, engineer's sup-		
plies	11 50	
Engineer's assistants, car fare, etc.,	6 59	
New England Telephone and Tele-		
graph Company, rentals and tolls,	175 55	
÷ -		
	и	** ** **

Amounts carried forward . . \$1,823 86 \$9,804 63

Amounts brought forward	•	•			\$9,804	63
H. D. & W. S. Durgin, ice	•	•		00		
E. R. Perham, expressing	•	•		25		
Wm. J. London, expressing	•	•		65		
Stephen & Co., "	•	•	5	20		
Thorpe's Express, "	•	•		55		
A. L. Sanborn, carriage hire	•	•	12	00		
R. T. Blackwell, teaming	•	•	21	00		
S. J. Wood, keys	•	•	5	60		
S. Tyler Hicks, refreshments	S	•	43	00		
Silas D. Carter, "		•	5	00		
Jairus Mann, watching .	•	•	45	00		
Jairus Mann, expenses "1	Empi	re				
State " excursion .		•	65	50		
M. A. Mann, washing .			20	00		
Charles Robinson, Jr., rent	•		10	00		
George D. Wilde, rent .			30	00		
St. Joseph's Total Abstinen	ce S	0-				
ciety, rent		•	25	00		
James M. Shute, rent .	•		30	00		
James H. Flaws, use of hall			10	00		
S. H. Libby, services as aucti			12	90		
Middlesex Registry of Deed		-				
cording			4	60		
Commonwealth of Massach						
one fourth amount receive						
liquor licenses			3	00		
A. B. Dearborn, return of birt				00		
R. L. Lane, ""		•		25		
E. A. Sanborn, "				00		
J. S. Couch, . "		·	42			
H. B. McIntire, "		Ů		50		
George Cullis, "			169			
Affidavit of posting.		•	44			
W. A. Flaherty, return of dea	the	•	29			
E. H. Marsh, "		•		50		
J. W. Coveney, "		•		75		
or in Coveney,		-				

Amounts brought forward	\$2,556	11	\$9,804 63
P. H. Rafferty & Co., return of			
deaths	15	75	
H. B. Runey, return of deaths .	30	75	
C. H. Lockhart, "	17	00	
J. A. Gregg, ""	2	00	
John Turner & Co., resetting curb.	200	00	
R. F. Thompson, labor.	2	00	
L. K. Whitcomb, "	2	62	
James M. Coburn, "	2	00	
James Deacon, "	12	75	
Wm. H. Whitcomb, janitor	360	00	
A. M. Prescott, teaming		00	
George W. Prichard, teaming		50	
George I. Vincent, travelling ex-			
penses	5	80	
E. S. Tobey, rent of post-office box,		00	
C. M. Blake, newspapers		00	
Charles F. Robertson, clerical ser-			
vices	9	00	
Sarah A. Miles, clerical services .		00	
Beulah M. Pierce, "		50	
Grace M. Sewall, "		7 5	
Clara M. Smith, ""		00	
Anna M. Smith, "		00	
Jessie B. Underhill, clerical ser-	0		
vices	2	25	
T A MC-Y		10	
Noah Harding, sealer of weights and	40	io	
	100	00	
measures		64	
Samuel C. Darling, disbursements.		39	
		40	
Clerk of court, fees John Fairbain, "		00	
TITY 1 M	288		
	200	00	
Hannah Dodge, verdict and costs for	1 561	22	
damages	1,561	00	
Amounts carried forward	\$5,380	64	\$9,804 63

Amounts brought forward	\$5,380	64	\$9,804 63
George P. Deshorn, verdict and costs			
for damages	1,356	08	
C. G. Rowell, compensation for dam-			
ages	1,200	00	
H. Wellington, compensation for			
damages	30	00	
J. B. Eastman, poultry for Thanks-			
giving	5 0	94	
William S. Ward, poultry for Thanks-			
giving	60	39	
Charles S. Butters, poultry for			
Thanksgiving	67	20	
F. A. Ham, ringing bell	3	00	
A. L. Smith, "	3	00	
G. W. Littlefield, "		00	
Allen's Band, services Memorial			
day	68	00	
L. H. Brown, carriages			
Frank Walburg, drummers	3		
Thomas Young, flowers	55		
H. Partridge, flags	2		
Middlesex R. R. Company, special	_		
car	8	00	
S. H. Hadley, musical director .	27		
J. O. Hayden & Co., printing			
W. D. Hayden, services at hall .			
• .	5		
George H. Patch, orator			
Woman's Relief Corps, refresh-			
ments	40	00	
John Battles, labor at cemetery .	2		
- Community .			
	\$8,452	68	
excess and deficiency, balance to credit			
of account	1,351	95	#A AA AA
		_	\$9,804 63

E

NEW FIRE HYDRANTS.

CREDIT.	
Appropriations, amount assessed	\$1,000 00
Debit.	
Cash, paid Chapman Valve Company,	
hydrants \$684 21	
Water maintenance, account labor, pipe, etc 311 63	
-	
Excess and deficiency, balance to credit	
of account 4 16	
	\$1,000 00
OVERLAY AND ABATEMENT.	
Credit.	
Balance from 1885	\$6,344 76
as fractional divisions for convenience in ap-	
portionment, to be applied to abatement on	1 000 01
taxės	1,900 91
Debit.	\$8,245 67
Taxes, for abatements on taxes \$4,342 33	
Balance to credit in account 1887 3,903 34	
	\$8,245 67
OVERPLUS ON TAX SALES.	
CREDIT.	#400 40
Balance from 1885	\$102 13
sold for non-payment of taxes for 1884.	635 93
Amount carried forward	\$738 06

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 75	
Amount brought forward \$738 06	
Debit.	
Cash, paid sundry persons, overplus received on sale of their estates . \$504 10 Balance to credit in account 1887 233 96 \$738 06	
PROPERTY AND DEBT BALANCE.	
Credit.	
Renewals of funded debt \$116,500 00	
Public property acquired during the year 1886 . 15,515 06	
Balance to debit in account 1887 274,558 30	
\$406,573 36	
Debit.	
Balance from 1885 \$290,073 36	
Appropriations	
PUBLIC PROPERTY.	
Credit.	
Balance to debit in account, 1887	
Debit.	
Property and debt balance, property ac-	
quired during the year. \$15,515 06	
Balance from 1885 1,234,926 64	
\$1,250,441 70	
PUBLIC LIBRARY.	
CREDIT.	
Balance from 1885	
Appropriations, amount assessed	
Interest, transferred	
Amount carried forward \$3,312 33	

Amount brought forward .				\$3,312 33
Cash received of county treasurer	, return			, ´
on dog licenses, 1885.		\$1,728	54	
Librarian, fines		274	69	
Librarian, catalogues .		36	60	
City of Boston, discount on w			20	
				2,041 03
				0, 0, 0, 0, 0
<i>7</i>				\$5,353 36
Deb	IT.			
Cash, paid Little, Brown & Co., 1	books .	\$1,178	37	
Lockwood, Brooks & Co.,	66 .	108	22	
Estes & Lauriat,	66	342	40	
Wm. B. Clark & Carruth,	• •	241	90	
Bradley & Whidden,	".	30	00	
D. Appleton & Co.,	"	75	00	
Cleaves, Macdonald & Co.,	66	214	19	
Houghton, Mifflin & Co.,		22	50	
Mason & Fowler,		15	00	
E. A. Capen,		15	00	
W. H. Becker,	66	3	00	
John J. W. Reaves,	66	7	00	
William A. Mowry,	66		00	
D. L. Guernsey,		10	00	
L. Prang,	66 .		50	
W. H. Thompson,	66		75	
C. C. Caduc,	66		00	
Publisher of "Science" mag	azine .		00	
" "Weekly"	66		20	
Ira Bradley & Co., binding			14	
J. G. Roberts & Co., binding		120		
Babb & Stephens, printing		175		
Rockwell & Churchill, catalog		128		
Thomas Groom & Co., statio	_		00	
Hooper, Lewis & Co., "	nory.		25	
Hollingsworth & Whitney	Com-		20	
pany, covers			32	
C. M. Blake, newspapers	•		00	
o. Dr. Diano, nonspapers	•			
Amounts carried forward		\$2,791	05	\$5,353 36

Amounts brought forward			\$2,791	05	\$5,353	36
The "Nation," magazine	•	•		00	φυ,υυυ	00
H. W. Raymond, hardware		•		15		
Whitney & Snow, dusters, etc		•		00		
Holland & Daniels, shades				50		
Walker & Pratt Mfg. Compan	· nv. r	e	-	., 0		
pairing heating apparatus	•		7	34		
Stillman & Nichol, gas fixture				10		
W. H. Poole, ""	~	•		75		
Wassenius & Dusseault, desk			25			
Shaw, Applin & Co., settees		•	91			
Cambridge Gas Light Company		٠.	173			
Standard Gas Governor Con		-	2.0			
governor		, ,	60	00		
B. F. Wilde & Co., fuel.			82			
Geo M. Winslow & Co., fuel		•	88			
F. L. Kelsey, agent, clock			35			
C. A. Legallee, plumbing				28		
L. C. Seavey, slating .	•			63	•	
Geo. W. Burckes, carpenter w				04		
L. Arnold, "	66		60			
Fred C. Fuller, "	66			80		
William B. Stinson, "	66	•		19		
R. A. Melvin & Co., "	66		1	50		
C. K. Gordon, mason work	•	o	20	70	,	
City of Boston, water .	•	•	20	00		
Wm. J. London, expressing	•		39	60		
N. J. McLaughlin, lawn dressi	ng		51	00		
3/11.1.1.TT' ' 1.1			108	00		
P. F. Smith, ".	,	•	15	00		
L. K. Whitcomb, ".	٥		7	00		
H. A. Adams, librarian .			700	00		
Lizzie Stevens, librarian's assi	stant	•	400	00		
·	66		300	00		
Amy Manning, "	66		59	82		
Harry Pillsbury, "	66		43	05		
Irving Dadman, "	66		16	15		
Harry Curtis, "	66		10	10		
Herbert Smith, "	66		8	05		
		-			\$5,353	36

PUBLIC LIBRARY BUILDING.		
Credit.		
Balance from 1885	\$311 5	5
Debit.		
Cash, paid Martin Mullin, granite curb-		
ing \$258 75		
Excess and deficiency, balance to credit		
of account		
	\$311 5	55
PRINTING AND STATIONERY.		
CREDIT.		
Appropriations, amount assessed	\$3,000 0	0
Cash, received of George C. Emerson, advertising .	3 0	0
	<u> </u>	_
DEBIT.	\$3,003 0	U
Cash, paid J. O. Hayden & Co., printing and advertising \$1,022 97		
Rand, Avery & Co., printing annual		
reports 642 90		
Babb & Stephens, printing 107 00		
J. A. Cummings & Co., printing . 75 00		
McDonnell Bros., " . 26 00		
Coburn Bros., " 9 50		
J. H. Bufford's Sons, " 61 50		
Aaron R. Gay & Co., stationery . 803 61		
M. S. Tobin, " 1 25		
National Reporting Bureau, financial		
reports 1 00		
Wm. H. Smith, seal 2 00		
Charles G. Whitten, stamp 1 25		
Charles B. Stevens, recording 7 45		
Robert Burlen, binding 12 00		
\$2,773 43		
Excess and deficiency, balance to credit		
of account		
	\$3,003 00	0

POLICE.

CREDIT.

				•			
Appropriations, amount as	sessed	•	•	•	•	\$33,500	00
Interest, transferred .	•	•	•	•	•	231	38
Cash, received of H. A. Cl	hapin, c	lerk	of				
court, for officer's fe	es, fine	s, etc	з.,	\$2,226	05		
John P. Squire, servic	es of po	olice	•	370	00	0 *00	~ =
			-			$2,\!596$	05
						\$26,327	43
	Deb	IT.					
Cash, paid M. C. Parkhurs	st, chief			\$1,500	00		
R. R. Perry, captain	•			1,200			
Samuel R. Dow, serge	ant			1,000			
	6	•		1,000			
	66		•	1,000			
George W. Bean, pa	trolman	1.	•	912	50		
Samuel A. Brown,	66			912	50		
George A. Bodge,	66			912	50		
George H. Carleton,	6.6		•	912	50		
Edward M. Carter,	66	•		912	50		
Eugene A. Carter,	66	•		912	50		
Anson H. Eaton,	66	•		897	7 5		
John E. Fuller,	66		•	912	50		
Edd. F. Fales,	66			912	50		
John Hafford,	6 6	•	•	912	50	0	
John F. Johnson,	66	•		912	50		
Myron H. Kinsley,	66	•		912	50		
Dennis Kelley,	6 6			912	50		
Ivan Laighton,	66			912	50		
Herbert H. Miller,	66	•		912	50		
Judson W. Oliver,	6.6	•	•	912	50		
P. W. Skinner,	66	•	•	912	50		
Albion L. Staples,	66	•	•	912	50		
George L. Smith,	6 6	•		912	50		
Patrick J. Bench,	66	•	•	551	25		
Edward E. Hamblin,	66	•		857	50		
Amounts carried forw	ard	•		\$2 4,431	50	\$26,327	43

Amounts brought forward		\$24,431	50	\$26,327 43	
William J. Blaisdell, pat				#-0,0 2	
(special)		142	00		
D. P. Bucknam, patrolman (s	pecial)		00		
James A. McLane, "	· · ·		00		
James M. Murdough, "	66	20	00		
George H. Perkins, "	66	32	00		
F. A. Perkins, "	66	30	00		
E. L. Robinson, "	66	4	00		
B. F. Sheridan, "	66	32	00		
Peter Savage, "	66.	30	00		
Peter J. Savage, "	66	34	00		
Fred. H. Terrill, "		140	00		
Joseph A. Young, "	66	24	00		
M. C. Parkhurst, lock-up keep	er .	100	00		
M. C. Parkhurst, disbursement	ts .	17	05		
R R. Perry, disbursements		1	00		
S. R. Dow, car fares, etc.		25	50		
E. M. Carter, " " "	• •	1	81		
Eugene A. Carter, car fares, e	etc	4	25		
C. C. Cavanagh, ""		8	85		
Anson H. Eaton, ""		1	25		
Dennis Kelley, ""	66	19	83		
Ivan Laighton, """			75		
Richard Keefe, photographing	g .	26	00		
George B. Kerr, buttons.		36	00		
Geo. W. Simmons & Co., wre	eaths .	2	00		
H. A. Winship, clubs .		2	00		
John P. Lovell's Sons, revolve	rs, etc.	302	00		
Murphy & Co., supplies .	• . •	13	50		
Union Glass Company, lanter	ns .	12	00		
C. M. Blake, newspapers		22	50	-	
Little, Brown & Co., law book	ks .	21	50		
Aaron R. Gay & Co., stationed	•	16	31		
J. O. Hayden & Co., printing		9	50		
New England Telephone and	d Tele-				
graph Company, rentals an			70		
Western Union Telegraph Co	mpany,				
telegrams		8	71		
Amounts carried forward	•	\$25,698	51	\$26,327 43	

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 81

Amounts brought forward	•	. \$	25,698	51	\$26,327	43
Union Square Carriage						
repairing wagon			29	25		
D. Cutter, repairing badges		•	1	00		
Howe & Flint, lamp wicks		. 1		12		
Sturtevant Bros., horse.			150	00		
Sturtevant Bros., soap, etc	c		1	42		
W. Schuebeler, towels .	•		3	00		
Caldwell & Staples, teaming	ıg .		1	50		
Jackson, Caldwell & Co., fu	rniture		5	00		
L. H. Brown, carriage hire			29	50		
A. L. Sanborn, horse keep	ing.		86	73		
R. T. Blackwell, "			199	80		
Lewis Putnam, veterinary	services	•	2	00		
Silas D. Carter, meals						
prisoners			39	00		
H. D. & W. S. Durgin, ice			30	00		
E. Spalding, harness work			9	25		
S. Dodge, blacksmithing,	•		3	30		
Timothy O'Brien, horse she	oeing		13	37		
Elizabeth Avery, washing			16	68		
Sarah Monahan, "			2	00		
A. M. Prescott, teaming.			2	00		
W. D. Hayden, labor .		•	4	00		
,		_			\$26,327	43
POLICE STATION INCID	ENTAI	Ls.				
\mathbf{C}	REDIT.					
					01 700	00
Appropriations, amount assesse		•	•	•		
Interest, transferred	•	. 11	010		300	00
Cash, received of N. K. Bishop,		111,	\$12			
Bachelors' Club, use of hal		•	41			
Central Club		. 11		00		
First Universalist Society,		,		00		
St. Joseph's Parish, use of		. 11	26			
Washington Degree Camp, Woman's Christian To			26	00		
	emperan	ice	0	00		
Union, use of hall .	•	•	8	00		
Amounts carried forward			\$122	00	\$1,800	00
6						

$A mounts\ brought\ forward$	\$122	00	\$1,800	00
Somerville Co-operative Bank, use of	•			
court room	63	00		
Commonwealth of Massachusetts, rent				
of armory	23 3	33		
			- 418	33
			A 2.210	0.0
Debit.			\$2,218	33
Cash, paid W. D. Hayden, janitor.	\$750	00		
Wm. D. Hayden, extra help em-	Ψ•00;			
ployed	14	00		
Cambridge Gas Light Company, gas,				
Walworth Manufacturing Company,		~_		
gasolene	70	41		
J. W. Acres, padding cell	176			
Lamprey & Marble, repairing .		48		
Everett E. Onley, blacksmithing .		00		
L. Arnold, carpenter work		86		•
S. T. Kirk, ""	22	30		
C. A. Legallee, plumbing	39	70		
L. C. Seavey, slating	12	31		
D. P. Bucknam, whitewashing .	17	00	•	
H. W. Raymond, hardware	20	34		
Howe & Flint, '"		75		
Joseph J. Giles, chairs	2	25		
George H. Cowdin, sponges, etc	3	69		
Sturtevant Bros., matches, etc		7 5		
William L. Fox & Co., compound.	8	75		
Walter Davis, teaming		50		
J. F. Manning, moving safe	70	00		
Thorpe's Express, expressing	6	50		
G. M. Winslow & Co., fuel	187	64		
B. F. Wilde & Co., "·	231	00		
W. C. Crane, premium of insurance,	20	00		
City of Boston, water rates	25	26		
	\$1,950	51		
Excess and deficiency, balance to credit				
of account	267	82		
			\$2,218	33

REAL-ESTATE LIENS.	
Credit.	
Cash, received of sundry persons for tax titles released	
\$758 8t	9
Девіт.	
Balance from 1885	
payment of taxes	
city for non-payment of sewer assessments 169 20	
Interest, titles deeded to the city for non-payment of taxes and assessments, 13 47	
Miscellaneous, titles deeded to the city for non-payment of taxes and as-	
sessments	9
DENETTAL C. OF EUNDED DEDT	_
RENEWALS OF FUNDED DEBT.	
Credit.	
Appropriations, amount authorized by loans \$116,500 0	0
Debit.	
Property and debt balance, amount of funded debt	
paid in 1886	0=
SINKING FUND CONTRIBUTIONS.	
CREDIT.	0
Appropriations, amount assessed \$40,725 00	U
Debit.	
Cash, paid commissioners of sinking funds \$40,725 00	0

STATE AID.
CREDIT.
State of Massachusetts, State aid, amount paid in 1886, charged to State
Cash, paid monthly pay-rolls for aid \$3,709 00
STATE OF MASSACHUSETTS.
CREDIT. Taxes, amount assessed \$20,085 00
Debit.
Cash, paid State treasury State tax \$20,085 00
STATE OF MASSACHUSETTS-STATE AID.
Credit.
Cash, received of State treasurer \$3,717 00 Balance, Dec. 31, 1886, due from State, Dec. 1,
1887, to debit in account 1887 $3,560$ 00
\$7,277 00
Debit. Balance from 1885 \$3,568 00 State aid, amount paid in 1866, as per
account 3,709 00

STATE OF MASSACHUSETTS - INDIGENT SOLDIERS AND SAILORS.
CREDIT.
Cash, received of State treasurer
1887, to debit in account 1887
Amount carried forward \$945 00

APPENDIX TO TREASURER AND COLLECTOR'S	REPORT. 85
Amount brought forward	\$945 00
DEBIT.	
Balance from 1885 \$482 00 Indigent soldiers and sailors, one half of	,
amount paid in 1886, as per ac-	T 1
count 463 00	
0.000-1	- \$945 00
SUNDRY PERSONS.	
Credit.	
Balance from 1885	\$1,186 44
Interest, coupons due and unpaid \$100 00)
Water loan, interest coupons due and unpaid 32 50	
unpaid	132 50
	\$1,318 94
Debit.	\$1,010 04
Cash, paid sundry persons, amounts to	
their credit	
Balance to credit in account 1887 1,231 44	
_ 1_1	- \$1,318 94
SALARIES.	
Credit.	ä24 000 00
Appropriations, amount assessed	. \$21,900 00 . 377 40
interest, transferred	011 10
ревіт.	\$22,277 40
	100
Cash, paid Mark F. Burns, mayor \$1,000 00 Charles E. Gilman, city clerk 2,100 00	
John F. Cole, city treasurer and	
collector of taxes 3,200 00	
George A. Kimball, city engineer . 2,000 00	
Samuel C. Darling, city solicitor . 1,000 00 T. M. Durell, city physician 950 00	
Amounts carried forward . \$10,250 00	\$22,277 40

Amounts brought forward . \$10,250 00	\$22,277 40
Douglas Frazar, city auditor 450 00	
clerk of common	
council 200 00	
George I. Vincent, clerk of assessors	
and committees 1,800 00	
William P. Mitchell, assistant clerk	
of committees 1,200 00	
Jairus Mann, city messenger 1,400 00	
Thomas R. Roulstone, superintendent	
of buildings and street lights . 1,400 00	
Aaron Sargent, treasurer of commis-	
sioners of sinking funds 200 00	
Elijah Walker, inspector of build-	
ings	
Thomas Cunningham, inspector of	
milk 300 00	
Stillman H. Libby, assessor 500 00	
George W. Hadley, " 500 00	
Benjamin F. Thompson, assessor . 500 00	
George W. Bartlett, assistant as-	
sessor 200 00	
William A. Flaherty, assistant as-	
sessor 200 00	
Hiram D. Smith, assistant assessor . 200 00	
Samuel T. Richards, assistant as-	
sessor 200 00	
Charles E. Gilman, registrar of	
voters 150 00	
John R. Conant, registrar of voters. 200 00	
C. G. Rowell, " . 150 00	
S. G. A. Twycross, " . 150 00	
Engineer's assistants 1,657 40	
William H. Whitcomb, janitor of	
City Hall and Public Library . 220 00	
	\$22,277 40

STREET LIGHTS.

CREDIT.

Appropriations, amount assessed		•	\$9,500	00
Cash, received of George W. Burckes et al.,	,			
lamp-post	\$20	00		
John Cochran et al	20	00		
William R. Cann	20	00		
Fred C. Fuller et al	20	00		
Alexander A. Foster	20	00		
John Herbert et al	60	00		
A. P. Huntress et al	20	00		
Thomas Hollis	20	00		
George W. Holden et al	20	00		
George D. Haven	20	00		
O. S. Knapp et al	20	00		
Edward Perkins et al	20	00		
W. P. Rice et al	20	00		
E. S. Sparrow et al	20	00		
John Stackpole et al	20	00		
J. G. Abbott, damage to lamp-post,	15	48		
Martin Gill, damage to lamp-post .	17	74		
John Manning, damage to lamp-post,	12	36		
Maverick Oil Company, empty bar-				
rels		00		
Horatio Wellington & Co., damage				
to lamp-post	15	40		
			409	98
			<u></u>	0.0
Dевіт.			\$9,909	98
Cash, paid Cambridge Gas Light Com-		0.0		
- • •	\$2,339	03		
Cambridge Gas Light Company, pip-				
ing, etc	424			
Charlestown Gas Company, gas .		54		
Charlestown Gas Company, piping,				
etc		37		
Globe Gas Light Company, torches,				
etc	9	40		
Amounts agrained familiand	\$4,746	05	\$9,909	0.0
Amounts carried forward	φ 4 , 140	00	\$3,303	30

Amounts brought forward	\$4,746	05	\$9.909	98
Christopher Burke, lighting and care			,	
of lamps	728	06		
Patrick F. Moore, lighting	262	60		
Patrick O'Connell, "	414	00		
William H. Archibald, "	250	65		
James Tevlin, "	64	70		
Benjamin F. Shute, "	73	50		
Thomas F. Casey, "	573	57		
William B. Berry, lamp-posts, etc	907	31		
Nathaniel Tufts, lanterns	58	20		
E. H. Tarbell, burners	2	75		
McDowell & Hartz, torches	1	75		
Martin Thayer, alcohol	8	75		
Samuel Walker & Co., oil	16	22		
Capen, Sprague & Co., "	1	10		
Holmes & Adams, gasolene	285	87		
F. E. Studley, glycerine		30		
Hills, Turner & Co., glass	40	50		
H. W. Raymond, "	102	7 5		
Charles Holmes & Son, poles, etc	5	14		
Bishop & Brother, ladders	11	75 .		
John Turner & Co., granite circles.	47	08		
William H. Poole, gas fitting	16	21		
J. A. Durell, repairing lamps .	110	29		
Everett E. Onley, " ".	13	75		
Howe & Flint, " ".	13	00		
G. M. Bowditch, " " .	6	15		
S. J. Wood, repairing lock		75		
S. T. Kirk, carpenter work	38	15		
J. M. Burckes, mason work	30	12		
Walter Davis, teaming	1	00		
Wm. J. London, expressing	2	50		
Blackall's Express, "		7 5		
J. O. Hayden & Co., printing.	17	10		
S. H. Libby, premium of insurance,	10	00		
	* 0 000	97		
Evenes and deficiency belongs to small	\$8,862	31		
Excess and deficiency, balance to credit of account	1,047	61		
or account			\$9,909	98
				=

SIDEWALKS. CREDIT. \$4,000 00 Appropriations, amount assessed . Sidewalk assessments, assessments levied 3,598 32 \$7,598 32 DEBIT. . \$1,447 61 Cash, paid laborers . John P. Downey, edgestones, etc. . 3,567 82 983 45 John Thresher, bricks . . . John Medina, " 201 60 J. O. Hayden & Co., advertising 174 10 Aaron R. Gav & Co., stationery . 8 00 Highways account, labor and mate-17 95 Sewers account, catch-basin curbs . \$7,229 94 Excess and deficiency, balance to credit 368 38 of account. \$7.598 32 SIDEWALK ASSESSMENTS. CREDIT. Cash, received of sundry persons, assessments . \$1,610 42 Balance to debit in account 1887 . . . 3,446 97 \$5,057 39 DEBIT. Balance from 1885 . \$1,459 07 . 3,598 32 Sidewalks, assessments levied . \$5,057 39 SEWERS. CREDIT. Appropriations, amount assessed \$8,000 00 Cash, received of W. R. Hicks & Co., old leather hose \$24 54 Amounts carried forward \$24 54 \$8,000 00

1 7 7 7				
$Amounts\ brought\ forward$	\$24	54	\$8,000	00
City of Cambridge, part cost of				
stone bounds	10	68		
Trùstees of Massachusetts General				
Hospital, annual fee for permission			,	
to enter Fitchburg Street sewer .	50	00		
Edward Smith, fee for entering Elm				
Street sewer	30	00		
Walter E. Powell, fee for entering				
Elm Street sewer	34	00		
Maurice Terry, puddling		88		
Charles A. Mongan, "	2	00		
Stephen Buttimer, "	1	00		
Maurice Buttimer, "	1	50		
Paul Kelley, "	2	00		
Sidewalks account, catch-basin curbs,	17	95		
Health Department, collecting ashes,		50		
	-	 ·	175	05
Sewer assessments, assessments levied .			8,736	07
			Ö1 C 011	1.0
			\$16,911	17.
DERIT			# · · ·) · ·	1-
Cash naid laborers	\$3 001	91	9 . O , O Z .	12
Cash, paid laborers	\$3,001	91	# • ° , ° · •	12
Cash, paid laborers			# 10 yo 1 1	12
Cash, paid laborers			# 10 yo 1 1	12
Cash, paid laborers	1,041	64	**************************************	
Cash, paid laborers	1,041 1,194	64 13	**************************************	
Cash, paid laborers	1,041 1,194 27	64 13 52	***************************************	
Cash, paid laborers	1,041 1,194 27 189	64 13 52 02	**************************************	12
Cash, paid laborers	1,041 1,194 27 189 43	64 13 52 02 50	***************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings	1,041 1,194 27 189 43 25	64 13 52 02 50 00	**************************************	
Cash, paid laborers	1,041 1,194 27 189 43 25 4	64 13 52 02 50 00 25	**************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware	1,041 1,194 27 189 43 25 4 149	64 13 52 02 50 00 25 65	**************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware H. W. Raymond, "	1,041 1,194 27 189 43 25 4 149 18	64 13 52 02 50 00 25 65 80	**************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware H. W. Raymond, " Boston Belting Company, hose	1,041 1,194 27 189 43 25 4 149 18	64 13 52 02 50 00 25 65 80 00	**************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware H. W. Raymond, " Boston Belting Company, hose A. S. Jackson, repairing hose .	1,041 1,194 27 189 43 25 4 149 18 3 30	64 13 52 02 50 00 25 65 80 00 65	**************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware H. W. Raymond, " Boston Belting Company, hose A. S. Jackson, repairing hose Sanborn & Hatch, bricks	1,041 1,194 27 189 43 25 4 149 18 3 30 39	64 13 52 02 50 00 25 65 80 00 65 62	**************************************	
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware H. W. Raymond, " Boston Belting Company, hose A. S. Jackson, repairing hose Sanborn & Hatch, bricks Thomas Casey, ""	1,041 1,194 27 189 43 25 4 149 18 3 30 39 48	64 13 52 02 50 00 25 65 80 00 65 62 75		
Cash, paid laborers George D. Goodrich & Co., drain pipe Portland Stone Ware Company, drain pipe Marcellus Day, drain pipe David W. Lewis, "" Osgood & Hart, castings W. O. Barbour & Co., castings William H. Carberry, " Howe & Flint, hardware H. W. Raymond, " Boston Belting Company, hose A. S. Jackson, repairing hose Sanborn & Hatch, bricks Thomas Casey, ""	1,041 1,194 27 189 43 25 4 149 18 3 30 39 48	64 13 52 02 50 00 25 65 80 00 65 62		

Amounts brought forward	\$5.857	94	\$16,911	12
Horatio Wellington & Co., cement.			# ,	
George H. Sampson, powder				
Seward Dodge, blacksmithing.		94		
Cook Rymes & Co., "		50		
F. Dooris, "		80		
Worthley, Downes & Co., rubber				
boots	16	50		
Philip Eberle, rubber boots	1	25		
R. T. Blackwell, carriage hire.		00		
A. Parker, catch-basin stones.	200	00		
J. O. Hayden & Co., advertising .	124	45		
Aaron R. Gay & Co., stationery .	1	40		
Robert Burlen, binding plans	8	50		
Boston & Lowell Railroad, labor .	9	50		
Leander Greeley, carpenter work .	8	25		
I. H. Brown & Co., " ".		90		
Charles Bartley, oil, etc	1	20		
Water maintenance account, pipe,				
labor, etc	103	10		
Vinal, Henderson et al., land dam-				
ages	68	08		
John McCarthy and wife, land dam-			•	
ages	60	00		
City of Boston, water	37	60		
City of Cambridge, five ninths of				
expense of cleaning outlet of				
Bridge Street sewer	1,402	39		
Maurice Buttimer, balance for con-				
structing sewer in Greenville and				
Boston Streets	35	73		
Maurice Buttimer, constructing				
sewer in Flint and Glen Streets .	90	78		
Maurice Buttimen, constructing				
sewer in Fiske Avenue	313	03		
Maurice Buttimer, constructing				
drain pipe		96		
-				

Amounts carried forward . . \$8,430 12 \$16,911 12

Amounts brought forward	\$8,430	12	\$16,911 12	
Stephen Buttimer, constructing				
sewer in Thurston Street	300	76		
Stephen Buttimer, constructing				
sewer in Bradford Avenue	110	05		
Stephen Buttimer constructing				
sewer in Cross Street	316	55		
Richard Falvey, constructing sewer				
in Howe Street	396	30		
Richard Falvey, labor	3	00		
Paul Kelley, constructing sewer in				
Orchard Street	145	03		
Charles A. Mongan, balance for con-				
structing sewer in Tennyson				
Street	49	28		
Charles A. Mongan, balance for con-				
structing sewer in Hawkins Court				
and Church Street	64	03		
Caarles A. Mongan, constructing				
sewer in Summer Street	1,522	62		
Charles A. Mongan, constructing				
sewer in Pemberton Street	674	17		
Charles A. Mongan, constructing				
sewer in Orchard and Dover				
Streets	114	40		
Charles A. Mongan, constructing				
sewer in Tyler Street	127	21		
Charles A. Mongan, constructing				
sewer in Kingman Court	164	87		
Charles A. Mongan, connecting				
drains and laying pipe	46	40		
Putterill & Killion, balance for con-				
structing sewer in Graves Street,				
Willow and Highland Avenues,				
Cherry and Fairlee Streets	241	52		
Dennis Ryan, constructing sewer in				
Lowell and Vernon Streets	1,027	60		
-				
Amounts carried forward	\$13,733	91	\$16,911 12	

APPENDIX TO T	CREASURE	ER AND	CO	LLECTO	R'S	REPORT.	93
Amounts brought	forward	•		\$13,733	91	\$16,911	12
Dennis Ryan, co				,		,	
Lowell Street		•		217	00		
Maurice Terry,	construc	ting se	ewer				
in Wilton, Lov	well, App	leton, I	aw-				
rence and Hin	•			2,312	45		
Charles A. Mo	•		_	100	~~		
sewer in Tufts	Street .	٠	•_	138	25		
			ç	\$16,401	61		
Excess and deficience	y, balanc	e to cr		,,,,,,,			
of account.	-			. 509	51		
			-		—	\$16,911	12
SEWER ASSESS	MENTS.	•					
		CREDIT	2.				
Cash, received of sun	dry perso	ns, ass	essm	ents.		\$7,771	42
Real estate liens, title	es to the	city fo	or no	n-paym	ent		
of assessment	s .	. ,	•	•	•	169	20
Balance to debit in ac	ecount 18	87 .	•	•	•	6,467	86
						\$14,408	48
		Dевіт.				ψ 11 ,100	10
Balance from 1885			•	\$5,672	41		
Sewers, assessments	levied .			8,736			
						\$14,408	48
SUPPORT OF PO							
	(CREDIT.					
Appropriations, amou				•	•	\$15,000	00
Cash, received for sup		paupers	:				
Of city of Bosto		•	•	\$189			
	ridge .	•	•	154			
	burg .	•	•		00		
LOWE		•	•	49			
March		•	•	22			
" Newb	ouryport.	•	•	48	50 50		
Salein	1	•	•	10			
Amounts carried	forward	•		\$496	05	\$15,000	00

$A mounts\ brought\ forward$	\$496 05	\$15,000 00
Of town of Arlington	46 50	
" Carlisle	59 90	
" Medford	90 88	
" Manchester	58 00	
· Natick	24 50	
" Sandwich	45 75	
" Sunderland	7 00	
Sudbury	142 71	
· · Woburn	27 00	
State of Massachusetts, support of		
State paupers	809 73	
Burial of State paupers	65 00	
S. W. Dow, support of pauper	212 17	
C. C. Folsom, guardian, support of		
pauper	160 74	
Patrick Foley, support of pauper .	13 13	
O. S. Knapp, guardian, support of		
pauper	95 32	
J. A. Sawyer, administrator, support		
of pauper	42 00	
Felix Taylor, support of pauper .	48 00	
E. J. Jenkins, "	25 39	
Elizabeth Abbott, money not called		
for	12 00	
		2,481 77
		\$17,481 77
Девіт.		
Cash, paid for support of paupers, viz.: -		
Asylum for Chronic Insane	\$357 39	
Boston City Hospital	31 00	
Commonwealth of Massachusetts .	391 56	
Danvers Lunatic Hospital	889 54	
Massachusetts General Hospital .	43 00	
Carney Hospital	9 29	
State Hospital for Insane	860 70	
Taunton Lunatic Hospital	180 46	
_		
Amounts carried forward	\$2,762 94	\$17,481 77

Amounts brought forwa	ard	•		\$2,762	94	\$17,481	77
Worcester Lunatic Hos							
James M. Fiske, Ho							
rection	•	•		143	43		
City of Boston .	•			631	70		
Cambridge .	•			64	24		
" Chelsea .				114	35		
" Fall River .	•		•	2	20		
" Lawrence .				96	00		
Lynn			•	59	00		
" Lowell .	•			146	46		
" Newburyport	•			130	00		
· · Taunton .			•	2	00		
" Worcester .	•		•	105	00		
Town of Andover .				78	00		-
· · Barnstable	•		•	52	00		
" Holliston .				78	00		
Melrose .				69	00		
" Medford .		٠		48	00		
" Peabody .				267	97		
Jesse Abbott, rent .	1.			36	00		
Louisa Beers, ".	•			24	00		
Mary Burke, " .	•		•	72	00		
Mary A. Blackwell, ren	nt.			48	00		
Bridget Carroll. "	•	٠		5	00		
M. Costello,				36	00		
Timothy F. Cummings	, rent			48	00		
Albert T. Clark,	4.6			12	00		
Ellen Driscoll,	66			48	00		
Edward Foster,	4.4			48	00		
Thomas Flemming,	4.4			24	00		
Ann Gallagher,	4.4			60	00		
Sarah Gill,	4.6			72	00		
Ann Grady,	66		•	66	00		
Hannah Gallagher,	66			30	00		
Michael Green,	4.6			6	00		
S. H. Libbey,	6.6			48	00		
John I. Louden,	66	•		60	00		
			-				

Amounts carried forward . . \$6,851 11 \$17,481 77

Amounts brought forw	ard			\$6,851	11	\$17,481	77
M. J. Carron.	rent		•	· ·	00	, ,	
Patrick McCrossen,	66			48	00		
Owen McLaughlan,	66		•	104	00		
Jeremiah McCarthy,	66			60	00		
James McFarlane,	66	•		63	00		
Ann Nolan,	66			48	00		
Charles H. O'Neil,	66			48	00		
George K. Osgood,	66	•		21	00		
Mary O'Hare,	66	•	•	21	00		
M. B. Pitman,	٤.	• ;		36	00		
Emily E. Rice,	66		•	60	00		
Leander Sampson,	66			48	00		
Margaret Skehan,	66			10	00		
Olive Thomas,	6 6			72	00		
Maurice Terry,	6 6	•		60	00		
Frank A. Titus,	66			24	00		
Chester Williams,	"			22	00		
H. C. White,	66			20	00		
H.C. White, transport	ation of	f fam	ily,	29	20		
Mary Ash, board .				116	00		
Mary A. Blackwell, bo	ard			250	58		
Ira Bickford, rent .				60	00		
W. H. Boynton, board	l of pau	pers		121	94		
John Earl,	"		•	58	58		
William Holbrook,	66			60	00		
Sarah J. Hill,	66		•	184	15		
Charles Hutchinson,	"	•	•	52	00		
Bridget Jenkins,	66			113	85		
Ann Kelley,	66			139	03		
Hannah N. Mayo,	66	•		169	4 5		
Fred J. Miller,	66		•	45	00		
Ellen Nagle,	66			182	50		
John W. Nowlin,	66			19	85		
Ellen M. O'Donnell,	66			104	30		
E. J. Poole,	6.6			39	15		
Eugene Shea,	6.6			130	33		
Martin Toye,	66			104	30		
			_				

 $Amounts\ carried\ forward \qquad . \qquad .\ \$9,644\ \ 32 \quad \$17,481\ \ 77$

Amounts brought forward \$9,644 32	\$17,481 77
Almira Wilson, board of paupers . 36 00	
Samuel C. Darling, transportation . 3 00	
Charles S. Butters, groceries and	
provisions	
Charles Bartley, groceries and pro-	
visions 64 00	
A. F. Carpenter, groceries and pro-	
visions	
J. B. Eastman, groceries and pro-	
visions	
George H. Hills & Co., groceries and	
provisions	
D. C. Hennessey, groceries and pro-	
visions 157 00	
Knowles Bros., groceries and pro-	
visions 41 04	
A. Munroe, groceries and provisions 44 00	
John McPhillips, groceries and pro-	
Charles H. North & Co., groceries and provisions 185 00	
•	
P. T. O'Brien, groceries and provisions 16 00	
Charles A. Small, groceries and pro-	
visions 9 00	
C. L. Stevens, groceries and pro-	
visions 10 00	,
Sturtevant Bros., groceries and pro-	
visions	
Frank H. Turner & Co., groceries	
and provisions 83 73	5
William S. Ward, groceries and pro-	
visions)
Christopher Brothers, groceries and	
provisions	
A. Fiske, crackers 35 04	
Henry Gray, milk 11 75	
Amounts carried forward \$11,505 30	\$17,481 77

	Amounts brought foru	vard			\$11,505	30	\$17,481	77
	H. Wellington & Co.,				734			
	F. H. Mixon, stove.	•			8	50		
	Philip Eberle, boots	and sh	oes		70	60		
	Wm. J. Emerson, "	6.5	66		9	75		
	John C. Gillis, "	66	66		27	90		
	J. H. Mongan, "	"	66		11	75		
	J. H. Brooks, dry goo	ds .			37	00		
	J. W. Brine, ""	•		•	9	00		
	L. Arnold, carpenter	work	•		11	00		
	Joseph S. Brown, gla	zing	•		3	00		
	Aaron R. Gay & Co.,	station	ery		69	16		
	J. O. Hayden & Co.,	printing		•	67	25		
	Leach & Green, truss	•	•	•	3	00		
	J. A. Wheeler, profes	sional se	ervices		5	00		
	Patrick McLaughlin,	nursing	•	•	25	00		
	Wm. J. London, expr	essing	•	•	1	25		
	L. H. Brown, carri	age hire		•	65	00		
	R. T. Blackwell, "	66		•	5	00	•	
	P. H. Wellcome, "		•	•	2	5 0		
	Charles C. Folsom, sa	lary as	agent	•	1,149	96		
	Charles C. Folsom, di	sbursen	nents	•	98	71		
	George T. Lincoln, s	alary a	s secre	e-				
	tary	•	•	•	249	96		
	George T. Lincoln, st	amps	•	•	10	00		
•	J. W. Coveney, fun	eral exp	penses	•	. 6	00		
	Wm. A. Flaherty,	"	66	•	35	00		
	Wm. L. Lockhart,	4.6	6.6	•	10	00		
	H. D. Litchfield,	. 6	66	•	5	00		
	II. D. Runey,	6	6-6	•	17	7 5		
	P. H. Rafferty & Co.,	6	"	•	78	00		
	E. H. Marsh,		"	•	10	00		
				-	<u> </u>			
77		1			\$14,341	83		
EXC	ess and deficiency, ba	iance to	o cred	1t	9 190	0.		
	of account.	•	•	•	3,139	91	¢17 491	77
							\$17,481	11

SCHOOL CONTINGENT.

CREDIT.

Appropriations, amount				•		•	\$13,000	
Interest, transferred.		·	maide	nt n	· nnila ·	•	695	90
Cash, received for tuition				nt p	-			
Henry A. Atwood . F. P. Bartlett			•	•	\$16			
		•	•	•		00		
Charles Bunting .		•	•	•		50		
John D. Creelman .		•	•	•		50		
Francis Hollis		•	•	•		00		
John L. W. Nichols		•	•	•		00		
William A. Snow .		•	•	•		00		
Charles E. Sweet .		•	•	•		00		
Mary A. Warren .		•	•	•	25	00		
William Lamb .		•	•	•	10	00		
Albert D. Richards.		•	•	•	64	00		
J. H. Davis, injury t	to bo	oks		•	11	56		
							298	56
							# 12.001	
		DEBI	m				\$13,994	14
		DERI	т.					
Cash, paid Joshua H. I	Davis	s, sal	ary a	as				
superintendent of	scho	ols		. \$	2,000	02		
Joshua H. Davis, di	sbur	semer	nts		20	12		
Janitors					4,093	65		
E. L. Robinson, trus	ant c	fficer			350	00		
·	. 6	66			200	00		
L. H. Snow, travelli	ing e	xpens	ses	•	9	57		
James Mann, truant	_				49	97		
Knight, Adams & C								
Leach, Shewell &								
etc				,	377	39		
Harrison Hume, boo	oks.	etc.		į	871			
Ginn & Co.,	66		•	•	250			
Harper & Brothers,	66		•	•	496			
Adams & Ingraham	66		•	•	549			
F. M. Ambrose,			•	•				
r. m. Amorose,	66				192	በበ		
	66		•	•	123	00		

Amounts brought forward	\$9.694	44	\$13,994 14
Charles H. Whiting, books, etc.	287		#20,001 11
Cowperthwait & Co., "		89	
Carl Schoenhof, ".	158		
D. Appleton & Co., ".		25	
A. C. Stockin, "	•	30	
Willard Small, ".		35	
William Ware & Co., "		00	
Warren P. Adams, ".		80	
E. H. Butler & Co., "	12	00	
D. L. Guernsey, "".		00	
Thompson, Brown & Co., books, etc.	60		
J. L. Hammett, school supplies .	133	59	
Boston School Supply Company,			
school supplies	71	20	
George S. Perry, school supplies .	2	34	
E. J. Burt, supplies	2	37	•
Frost & Adams, artists' materials .	72	84	
Prang Educational Company, artists'			
materials	25	01	
Eagle Pencil Company, pencils .	343	31	
George Frost & Co., pencil sharp-			
eners	14	00	
A. G. Whitcomb, ink wells	38	80	
Geo. F. King & Merrill, stationery,	250	22	
Charles C. Gerry, erasers	21	00	
N. L. Dearborn, diplomas	91	25	
C. A. French, inscribing diplomas.	30	90	
George L. Baxter, disbursements .	7	91	
J. S. Hayes, "	4	70	
H. L. Morse,	4	94	
R. Bickford, ".	18	74	
George C. Nichols, "	7	5 0	
H. C. Parker, "	. 6	67	
G. A. Southworth, ".	6	50	
Carter, Rice & Co., cards	9	00	
J. O. Hayden & Co., printing .	433	52	
L. Barta & Co., " .	9	35	

Amounts carried forward . . \$12,207 81 \$13,994 14

Amounts brought forward .	.\$12,207 81 \$13,994 14
McDonnell Bros., advertising.	
E. S. Tobey, rent of post-office	
E. S. Daniels, tuning piano .	. 6 00
M. L. Aldrich, copying	. 2 60
S. Henry Hadley, music.	. 12 08
Thomas Young, flowers	. 4 85
Weeks & Potter, chemicals .	. 15 91
Murphy, Leavens & Co., dusters,	etc. 107 48
Oscar F. Howe, brooms, etc	. 14 25
Charles Holmes & Son, hardwar	e . 6 76
H. W. Raymond, hardware .	. 6 44
W. L. Snow, ".	. 10 82
J. E. Parsons, ".	. 3 35
Williams & Co., drinking cups	. 7 20
R. A. Stephens, carpenter work	
J. A. McLane, posting	* 0.0
Rand & Byam, soap	. 12 72
Geo. H. Hills & Co., soap .	. 3 06
Wm. H. Denton, oil, etc.	. 3 34
N. L. Pennock, "	. 90
J. A. Merrifield, pails	. 1 00
H. M. Weld, carriage hire .	. 13 00
First Methodist Episcopal Chu	rch,
use of church	
James M. Coburn, rent, etc	
D. Cummings, rent	100 00
Joseph Gott, rent	. 22 50
D. H. Rynn, rent, etc	. 148 45
R. F. Thompson, rent	. 156 00
T. Rafferty, rent	. 48 00
R. Frahey, labor	. 34 90
R. J. Whitton, labor	. 10 00
Mrs. Sullivan, "	. 6 45
Mrs. Sweeney, "	. 1 35
Barker & Tibbetts, expressing	. 14 35
Walter Davis,	. 4 50
Wm. J. London, "	. 4 75
2	

Amounts carried forward . . \$13,310 27 \$13,994 14

Amounts brought forward \$13,310 27	\$13,994 14
No. Cambridge Express, expressing . 30	,
Stilphen & Co., " . 7 25	
Thorpe's Express, ". 1 90	
B. H. Weeks, " . 8 95	
Woodbridge & Co., " . 41 43	
Cambridge Gas Light Company, gas, 153 62	
Charlestown Gas Light Company,	
gas 58 65	
City of Boston, water 387 77	
City of Cambridge, water 24 00	•
	\$13,994 14
SCHOOL FUEL.	
CREDIT.	
Appropriations, amount assessed	\$5,200 00
	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Debit.	
Cash, paid George M. Winslow & Co.,	
fuel	
B. F. Wild & Co., fuel 3,741 88	
Bishop & Brother, shavings 2 00	
Charles Booth, splitting wood . 1 50	
A 4.020.04	
\$4,928 94	
Excess and deficiency, balance to credit	
of account	\$5,200 00
•	
SCHOOLHOUSE INCIDENTALS.	
CONTROLLING THE TABLE.	
Credit.	
	\$8,000 00
Appropriations, amount assessed	\$8,000 00 705 92
Appropriations, amount assessed	
Appropriations, amount assessed	705 92

Amount brought forward	\$8,732 49
Debit.	
Cash, paid George W. Trefren, Jr., car-	
penter work \$141 04	
R. A. Stevens, carpenter work . 55 43	
Fred C. Fuller, " 107 85	
Melvin & Chandler, carpenter work . 34 73	
Harry Holt, " " . 41 97	
John D. Hills, " " . 40 03	
Leonard Arnold, " . 36 63	
S. & C. H. Williams, " . 24 58	
S. J. Wright, " " . 14 82	
R. A. Melvin, ". 7 84	
A. S. Arnold, " " . 7 50	
R. Frary, " . 2 00	
L. C. Duncklee, " . 136 50	
Geo. W. Bragdon, " " . 81 65	
M. Elston, " . 150 00	
John H. Stevens, " . 8 41	
A. C. Winning, mason work 274 02	
D. P. Bucknam, " 117 25	
J. M. Burckes, " 38 21	
C. E. Arnold, " 144 50	
T. J. Martin, " 18 00	
Calvin I. Sawyer, " 5 00	
A. Fisher, painting and glazing . 110 08	
J. H. Hollis, " " . 31 49	
D.W. McDermott, painting and glaz-	
ing 6 65	
J. T. Burton, painting and glazing . 1 50	
W. H. Denton, "" " 2 25	
C. A. Legallee, plumbing 107 85	
H. W. Covelle & Co., plumbing . 31 15	
James F. Davlin, " . 10 31	
Folger & Dupont, " . 2 85	
J. A. Durell, stove work, etc 148 42	
J. A. Merrifield, " " 154 04	
- Amounts carried forward \$2,094 55	\$8,732 49

Amounto busyaht famurud 60 004 55 60 702 40	
Amounts brought forward \$2,094 55 \$8,732 49 Charles Holmes & Son, stove work,	
252 05	
Howe & Flint, stove work, etc. 255 05	
H. W. Raymond, hardware 62 23	
W. L. Snow, "	
Whitney & Snow, ''	
A. J. Wilkinson, " 85	
W. S. Walker, blackboards 17 60	
Henry McElwin, " 50 00	
Carroll W. Clark, " 29 00	
J. E. Bell, " 49 32	
J. L. Hammett, "	
Page & Littlefield, turning 5 33	
J. F. Ayer, lumber 28 65	
S. W. Fuller, "	
Bishop & Bros., snow shovel 50	
L. C. Seavey, roofing 479 00	
Walter Bates, concreting 68 40	
Hasking & Montague, rent of canvas . 28 37	
Samuel N. Prince, " 16 00	
John L. Crafts, labor on High School-	
house roof 63 83	
I. H. Brown & Co., roofing 30 00	
W. H. Poole, gas fitting 1 50	
Cambridge Gas Light Company,	
piping 15 36	
Braman, Dow & Co., pipe 5 75	
Albert B. Franklin, heating appa-	
ratus, Bell Schoolhouse 2,395 35	
A. A. Sanborn, plans and specifica-	
tions 41 50	
W. W. Benjamin, plan of Grove	
Street 7 00	
C. Sullivan, hanging gas fixtures . 2 75	
Walter H. Durell, outside windows . 70 50	
J. M. Coburn, gaskets, etc 2 15	
Amounts carried forward \$5,924 87 \$8.732 49)

Amounts brought forward \$5,924	87 \$8,732 49
George Dunbar & Co., ash barrels,	01 00,102 40
	75
	31
	8 80
	5 83
· · · · · · · · · · · · · · · · · · ·	3 47
-	50
	5 50
) 50
9.	3 50
, , ,	3 50
3 .	3 00
	2 50
	9 70
•	75
,	5 00
· ·	7 89
	3 00
, , ,	4 00
,	3 50
8 /	2 00
	3 12
_	38
	25
·	2 00
	3 00
·	00
_	5 00
	60
	7 00
A. M. Prescott, " 4	4 50
Blackall's Express, "	75
Barker & Tibbetts, "	85
Sewer assessments account, sewers	
	4 67
Highway betterment assessment ac-	
	5 00
	50
	\$8,732 49

SCHOOL TEACHERS' SALARIES.

~					
${ m C}$	D	T	D	14	r
$\mathbf{\mathbf{\mathbf{\mathcal{C}}}}$	\mathbf{n}	100	J		

	OREI	TT.					
Appropriations, amount assess	sed					\$76,000	00
Interest transferred .		•			Ť	4,942	
intologi thanslollog	•	•	•	•	•		
						\$80,942	26
	DEE	י דידי				,	
	DEL)II,				# 3.0 0.40	2.0
Cash, paid salaries .	•	•	•	•	•	\$80,942	26
COLLOCI HOLLOEL IN THA	DD	177.77	.	m			
SCHOOLHOUSE IN WA	RD	TH	K.Hi.	반.			
	Crei	OIT.					
Appropriations, amount asses	sed					\$8,500	00
,						,	
	DEB	TT					
Cash, paid Charles Trull, land	d on	Low	ell				
Street		•	•	\$1,880	64		
George F. Loring, archite	ect	•		320	00		
J. H. Coon & Co., on	acco	ount	of				
		•		5,600	00		
J. F. Ayer, lumber.				•	72		
P. O'Connell, labor		•	·	1			
Water service account, se	· ovvio	o nin	•				
water service account, so	er vic	e brb	,		•		
				\$7,831	74		
Balance to credit of account	1887			0.00			
	2001	·	Ť			\$8,500	00
SCHOOLHOUSE IN WA	RD	FOT	JR.	•			
	CRE	DIT.					
Appropriations, amount asses	ssed					\$8,500	00
Cash paid G. D. Parker, land			rv				
Street				\$1,929	60		
George F. Loring, archit	tect			320			
J. H. Coon & Co., on		ount	of.	020			
contract	acci	Juni	O1	5,400	00		
contract	•	•	•	0,400			
Amounts carried forward	l			\$7,649	60	\$8,500	00

APPEN.	DIX TO	TREASU	JRE	R AND	COI	LLECTOR'S	RI	EPORT. 1	07
Amo	unts bro	uaht for	war	d .		\$7,649	60	\$8,500	00
	Ayer, l		•	•		1	72	,, -,	
	'Connell					3	00		
	er service		t, se	ervi c e p	ipe,	29	00		
				_		AF 200	-		
70.1	7.,	0	,	1005		\$7,683			
Balance t	o credit	of acco	unt	1887	•	816	68	\$8,500	00
								\$0,000	
TAXES.				-					
				CREDI	т.				
Cash, rec	eived for				•	\$5			
	66			188 3	•	16			
	66			1884	•	41,405			
	66			1885	•	73,420			
	66	66	"	1886	•	312,684	32	0405 F01	~ .
D 1 "	. 1.	4.4.7	, ,		0			\$427,531	94
				ne city	ior	non-paym	ent	1	E O
	taxes of		•	•	•	• •	•	21	98
Overlay a	ana aoao tement o			1009		\$10	25		
Aba	ement o	n taxes	101	1884	•	516			
	66	66	66	1885	•	419			
	: 6	66		1886	•	3,395			
				1000	•			4,342	33
Balance t	to debit i	n accou	int 1	1887 —		•		,-	
	incollect					\$3,242	98		
"	6.6	66	64		•	3,972			
66	66	66	66	1884		4,226			
66	66	66	66	1885		39,246	84		
66	66	66	66	1886		100,907	16		
								151,595	42
								\$583,490	87
				DEBI	т.			\$000,100	01
Balance i	from 188	5 .				\$166,503	59		
Appropri						# · , o · o			
	rrent ex					382,925	00		
State of		_				,			
	essed for		•			20,085	00		
				7		# 700 710		Ø700 100	
Amc	ounts car	ried for	war	α.	•	\$569,513	59	\$583,490	87

Amounts brought forward	\$569,513	5 9	\$583,490	87
County of Middlesex, amount assessed				
for county tax	12,076	37		
Overlay and abatement, amount added				
by the assessors	1,900	91		
•			\$583,490	87
WELLDON A DIT TO A NA				
TEMPORARY LOANS.				
Credit.				
Balance from 1885			\$175,000	00
Cash, borrowed by authority of the				
City Council on city notes, as				
follows, viz.:—				
March 3, Brewster, Cobb & Esta-				
brook, on eight months, at 3 per				
cent ,	\$75,000	00		
March 3, Brewster, Cobb & Esta-				
brook, on eight months, at 3 per				
cent	50,000	00		
March 31, Commonwealth of Mas-				
sachusetts, on eight months, at				
3 per cent	125,000	00		
April 13, Commonwealth of Massa-				
chusetts, on eight months, at 3				
per cent	75,000	00		
Dec. 6, Commonwealth of Massa-	•			
chusetts, on four months, at $3\frac{7}{8}$				
per cent	75,000	00		
Dec. 13, Commonwealth of Massa-				
chusetts, on four months, at $3\frac{7}{8}$				
per cent	75,000	00		0.0
			475,000	00
			\$650,000	00
Девіт.				
Cash, paid as follows, viz.:—				
Suffolk Savings Bank, note dated	¢100 000	00		
Oct. 29, 1885	\$100,000			
Amounts carried forward	\$100,000	00	\$650,000	00

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APPENDIX	TO	TREASURER	AND	COLLECTOR'S	REPORT.	109

ATTEMBLE TO THE MISSING MISSING	LLLOIOI	J 101	
Amounts brought forward	\$100,000	00	\$650,000 00
Commonwealth of Massachusetts,	,)		, ,
note dated Dec. 10, 1885.	75,000	00	
Commonwealth of Massachusetts,	,		
note dated March 31, 1886 .	125,000	00	
Suffolk Savings Bank, note dated	,		
March 3, 1886	75,000	00	
Suffolk Savings Bank, note dated	,		
March 3, 1886	50,000	00	
Commonwealth of Massachusetts,	,		
note dated April 13, 1886.	75,000	00	
,			
	\$500,000		
Balance to credit in account 1887 .	150,000	00	****
			\$650,000 00
WATER LOAN INTEREST.			
Credit.			
Cash, received of city of Boston, return	on water	rate	· ·
1885, 40 per cent on \$6,801 54 .			
1886, 15 " 20,000 00			
" 20 " 10,000 00 .	•		
" 25 " 10,000 00 .			
" 30 " 10,000 00 .			
" 40 " 18,231 96 .			
" 50 " 1,863 03 .	931		
2,000 00 .			\$21,444 91
D _{EBIT} .			,
Cash paid interest on water loan bonds	:		
\$14,500 one year at $5\frac{1}{2}$ per cent,	\$797		
$55,500$ six months at $5\frac{1}{2}$ "	1,526		
239,000 one year " 5 "	11,950	00	
7,500 six months " 5 "	187	50	
26,000 one year "4"	1,040		
48,000 six months " 4 "	960	00	
	\$16,461	25	
Less coupons unpaid	•	50	
Loss coupons unpaid			
Amounts carried forward	\$16,428	75	\$21,444 91

Amounts brought forwa Sundry persons, coupor		\$16,428	75	\$21,444 91
1	is unpaid as	39	50	
City of Boston, pro		02	00	
amount refunded	•			
takers	Water	109	90	
takers	• •	100		
	•	\$16,571	15	
Excess and deficiency, balan	ce to credit	ΨΙΟ,ΟΙΙ	10	
0 ,	·	4,873	76	
or accounts.	• • •			\$21,444 91
WATER SERVICES.				
	CREDIT.			
Cash, received of Roswell	C. Downer	,		
service pipe, etc		\$38	00	
E. H. Dunklee, serv	ice pipe, etc.,	, 13	50	
Barnabus Binney,	44	7	50	
H. P. Hemenway,	66	15	29	
Albert E. Hughes,	66	12	50	
Erastus Clark,	46	13	60	
Nathan A. Fitch,	66	39	75	
George G. Fox,	66	83	94	
John Harwood,	46	. 14	50	
Addison Smith,	6.6	38	40	
Amos Keyes,	6.6	47	20	
William Lock,	6.6	26	36	
Charles H. Pierce,	66	15	53	
John F. Mills,		7	50	
John Wall,	• 6	24	85	
Stephen Jackman,	66	7	50	
Frank H. Rindge,	66	35	11	
Amos Haynes,	66	47	65	
John F. Nickerson,	66	32	13	
Margaret A. Simpson.	66	7	96	
Schoolhouse in Ward T	hree, account			
service pipe .		27	88	
			—	
Amount carried forwar	\overline{d} .	\$556	65	

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 111

4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0==0 0=	
Amount brought forward	\$556 65	
Schoolhouse in Ward Four, account	20.00	
service pipe	29 00	
J. P. Fegan, old materials	11 20	
C. A. Legallee, pipe and fittings .	1 35	
F. A. Titus, S. & W. cock	3 00	
Dalton & Ingersoll, fittings	3 54	
Watering streets account, labor and materials	213 54	•
materials	210 04	•
	\$818 28	
Water-service assessments, pipes laid,		
cost of service	5,520 21	
		\$6,338 49
Debit.		
· A	\$2,229 50	
George K. Paul & Co., pipe	1,147 22	
W. L. Snow, "	2 80	
George D. Goodrich, drain pipe .	1 74	
Boston Lead Mfg. Company, pipe,		
etc	229 57	
Walworth Mfg. Company, pipe and		
fittings	145 81	
Ward & Curley, fittings	372 33	
Sumner & Goodwin, "	364 37	
Dalton & Ingersoll, "	410 32	
Andrew J. Morse & Sons, fittings.	7 50	
S. B. Locke & Co., clamps	24 34	
James P. Fegan, fittings	481 86	
Chapman Valve Mfg. Company,	74 00	
valves	51 96	
Boston Bolt Company, bolts	37 55	
Davis & Farnham, services, boxes,		
etc	629 74	
Dodge, Haley & Co., tools	4 02	
Armstrong Mfg. Company, tools .	17 85	
A. J. Wilkinson & Co., ".	4 43	
W. W. Hawkes, reel	5 00	
Amounts carried forward	\$6,167 91	\$6,338 49

Amounts brought forward	\$6,167	91	\$6,338	49
George Cutler, screw-drivers	•	50	#0,000	
Joseph Zane & Co., faucet	_	75		
Boston Belting Company, tubing .	6	42		
Guptill & Dove, moulds		50		
George Sanderson, naphtha furnace,		00		
H. Finnegan, soldering copper		00		
. J. A. Merrifield, plumbing		28		
Charles Holmes & Son, plumbing.		46		
Fulton O'Brion, grain		68		
J. McCarthy's Sons, charcoal		40		
Barker & Tibbetts, expressing .		25		
Wm. J. London, "		25		
George D. Day, "		15		
R. M. Hale, rebate on bill	6	00		
,				
	\$6,235	55		
Water maintenance, balance transferred,	102	94	***	
			\$6,338	49
TTA MED CEDITION A CONCONTINU	α			
WATER SERVICE ASSESSMENT	s.			
WATER SERVICE ASSESSMENT CREDIT.	S.			
		s.	\$5,889	27
CREDIT.		s.	\$5,889 916	
Cash, received of sundry persons for water		· .	916	92
Cash, received of sundry persons for water		· S .		92
Cash, received of sundry persons for water		· s .	916	92
Cash, received of sundry persons for water Balance to debit in account 1887. Debit.		•	916	92
Cash, received of sundry persons for water Balance to debit in account 1887. Debit.	er service · · · \$1,285	98	\$6,806	92
Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	er service · · · \$1,285	98	916	92
Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	er service · · · \$1,285	98	\$6,806	92
Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	er service · · · \$1,285	98	\$6,806	92
Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	er service · · · \$1,285	98	\$6,806	92
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	er service · · · \$1,285	98	\$6,806 \$6,806	92 19 19
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. DEBIT. Balance from 1885	er service · · · \$1,285	98	\$6,806 \$6,806 \$14,000	92 19 19 00
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	er service · · · \$1,285	98	\$6,806 \$6,806 \$14,000 1,000	92 19 19 00 00
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. DEBIT. Balance from 1885	\$1,285 5,520	98	\$6,806 \$6,806 \$14,000	92 19 19 00 00
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	\$1,285 5,520	98 21	\$6,806 \$6,806 \$14,000 1,000	92 19 19 00 00
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. DEBIT. Balance from 1885	\$1,285 5,520	98	\$6,806 \$6,806 \$14,000 1,000	92 19 19 00 00
CREDIT. Cash, received of sundry persons for water Balance to debit in account 1887. Debit. Balance from 1885	\$1,285 5,520	98 21	\$6,806 \$6,806 \$14,000 1,000	92 19 19 00 00 94

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 113

Amounts brought forward	\$9	60	\$15,102	94
C. O. Achorn, part cost of laying				
pipe	5 0	00	•	
Charles J. Simpson, part cost of lay-				
ing pipe	50	00		
McLean Asylum, pipe, labor, etc	1,078	40		
City of Chelsea, cement-lined pipe .	120	26		
Town of Winchester, tar kettle .	10	00		
Town of Melrose, rolling machine				
and castings	604	89		
Calvin Horton, lined pipe	6	64		
J. P. Fegan, old materials	10	50		
Middlesex Bleachery, labor and				
materials	300	81		
E. H. Bright, clock	5	00		
James Stiles, manure	6			
Sewers account, pipe, labor, etc.				
New fire hydrant account, labor,				
pipe and fittings	311	63		
h-he man morned			2,666	83
			\$17,769	77
Девіт.			\$17,769	77
	310 105	06	\$17,769	77
Cash, paid laborers	310,105	06	\$17,769	77
Cash, paid laborers			\$17,769	77
Cash, paid laborers	1,500	00	\$17,769	77
Cash, paid laborers	1,500 9	00 50	\$17,769	77
Cash, paid laborers	1,500 9 103	00 50 66	\$17,769	77
Cash, paid laborers	1,500 9 103 825	00 50 66 22	\$17,769	77
Cash, paid laborers	1,500 9 103	00 50 66 22	\$17,769	77
Cash, paid laborers	1,500 9 103 825 233	00 50 66 22 10	\$17,769	77
Cash, paid laborers Nathaniel Dennett, salary as superintendent Nathaniel Dennett, disbursements Sundry persons, clerical services Davis & Farnham, castings Somerville Iron Foundry, castings Chapman Valve Manufacturing Company, valve gates, etc.	1,500 9 103 825 233	00 50 66 22 10	\$17,769	77
Cash, paid laborers Nathaniel Dennett, salary as superintendent Nathaniel Dennett, disbursements Sundry persons, clerical services Davis & Farnham, castings Somerville Iron Foundry, castings Chapman Valve Manufacturing Company, valve gates, etc. Coffin Valve Company, hydrant, etc.	1,500 9 103 825 233 222 273	00 50 66 22 10	\$17,769	77
Cash, paid laborers Nathaniel Dennett, salary as superintendent Nathaniel Dennett, disbursements Sundry persons, clerical services Davis & Farnham, castings Somerville Iron Foundry, castings Chapman Valve Manufacturing Company, valve gates, etc. Coffin Valve Company, hydrant, etc. Pattee & Draper, hydrants	1,500 9 103 825 233 222 273 16	00 50 66 22 10 03 60 75	\$17,769	77
Cash, paid laborers	1,500 9 103 825 233 222 273 16 78	00 50 66 22 10 03 60 75 97	\$17,769	77
Cash, paid laborers Nathaniel Dennett, salary as superintendent Nathaniel Dennett, disbursements Sundry persons, clerical services Davis & Farnham, castings Somerville Iron Foundry, castings Chapman Valve Manufacturing Company, valve gates, etc. Coffin Valve Company, hydrant, etc. Pattee & Draper, hydrants Sumner & Goodwin, fittings Ward & Curley, fittings	1,500 9 103 825 233 222 273 16 78	00 50 66 22 10 03 60 75	\$17,769	77
Cash, paid laborers Nathaniel Dennett, salary as superintendent Nathaniel Dennett, disbursements Sundry persons, clerical services Davis & Farnham, castings Somerville Iron Foundry, castings Chapman Valve Manufacturing Company, valve gates, etc. Coffin Valve Company, hydrant, etc. Pattee & Draper, hydrants Sumner & Goodwin, fittings Ward & Curley, fittings Boston Belting Company, washers,	1,500 9 103 825 233 222 273 16 78 6	00 50 66 22 10 03 60 75 97 00	\$17,769	77
Cash, paid laborers Nathaniel Dennett, salary as superintendent Nathaniel Dennett, disbursements Sundry persons, clerical services Davis & Farnham, castings Somerville Iron Foundry, castings Chapman Valve Manufacturing Company, valve gates, etc. Coffin Valve Company, hydrant, etc. Pattee & Draper, hydrants Sumner & Goodwin, fittings Ward & Curley, fittings	1,500 9 103 825 233 222 273 16 78 6	00 50 66 22 10 03 60 75 97	\$17,769	77

Amounts brought forward .	. \$13,420	60	\$17,769 77
Dodge, Haley & Co., steel, etc.		10	
Walworth Manufacturing Company			
tools	. 9	10	
Boston Bolt Company, bolts .		10	
Thomas Watkins, pipe joiner .		00	
Whittier Machine Company, jacket		20	
Crosby Steam Gage and Valve Com			
pany, repairing gauge	. 1	25	
Boston Lead Manufacturing Com	!-		
pany, pipe, etc	. 307	52	
George K. Paul & Co., pipe, etc.		32	
R. D. Wood & Co., "" "		00	
George D. Goodrich & Co., drai			
pipe		28	
Medford Water Board, pipe .		20	
T. W. Norman & Co., frames.	. 7	20	
John Clary, lumber	. 144	81	
E. D. Sawyer & Co., lumber .	. 7	62	
J. Leland, ".	•	75	
Watson Bisbee, ".	. 8	00	
George H. Sampson, powder, etc.	. 25	58	
E. I. Train & Co., "" "	. 2	00	
L. G. Burnham, cement	. 10	80	
Sewall & Day Cordage Company	,		
packing	18	72	
Elliott, Barnes & Co., leather	. 6	75	
A. J. Wilkinson & Co., hardware	. 5	15	
H. W. Raymond, "	. 103	54	
Whitney & Snow, "	. 44	47	
Charles Holmes & Son, "	. 2	80	
Bradley & Hastings, "	. 18	57	
C. C. Warren, "	•	90	
Howe & Flint, "	. 3	60	
George H. Mason & Co., water	r		
cooler	. 4	00	
James W. Vinal & Co., filterer	. 2	00	
Union Glass Company, lanterns .	18	23	
		_	

Amounts carried forward . . \$14,721 16 \$17,769 77

	31 / 531 10	01 F F 00 F F
•	\$14,721 16	\$17,769 77
John L. Robinson, clock	20 00	
Joseph J. Giles, furniture	5 90	
J. B. Plummer, pails	1 65	
Warren B. Plimpton, polish	1 10	
C. E. Jones & Co., carriage trim-	0.00	
mings	3 60	
Philip Eberle, rubber boots	2 75	
Charles G. Whitton, stamp	3 00	
E. Spalding, harness work	27 00	
Seward Dodge, blacksmithing	131 95	
Charles N. Maguire, horseshoeing.	53 31	
Timothy O'Brine, ".	22 19	
J. W. Gerry,	2 25	
James Forgie & Son, collar	6 00	
John E. Hill, hoof pads	1 50	
W. W. Winship, tool bag	2 50	
Elijah Walker, carpenter work .	456 67	
J. W. Gilpatrick, " ".	7 25	
S. T. Kirk, "".	3 25	
I. H. Brown, " ".	90	
E. N. Buxton, painting, etc	28 50	
Bubier & Co., gutter	2 70	
R. W. Willey & Co., grain	380 04	
Fulton O'Brion, "	46 74	
Samuel Walker & Co., oil	12 70	
Spear, Gregory & Co., "	10 80	
Whitney & Snow, "	3 46	
Masury, Young & Co., "	9 00	
E. S. Conant & Co., salt	17 00	
Thomas Hollis, sponges, etc	1 50	
H. Wellington & Co., fuel and		
cement	176 10	
George M. Winslow & Co., fuel .	13 35	
B. F. Wild & Co., "	17 52	
Somerset Coal Company, wiping .	11 50	
Globe Gas Light Company, furnace,	11 00	
S. J. Wood, keys	5 50	

Amounts brought forward \$16,221 34 \$17,769 77
J. Spectorsky, brushes 2 25
H. D. & W. S. Durgin, ice 6 00
Cambridge Gas Light Company, gas, 20 80
New England Telephone and Tele-
graph Company, rentals and
tolls
Aaron R. Gay & Co., stationery . 87 26
J. O. Hayden & Co., printing 28 30
J. H. McNamee, bookbinding . 8 50
Barker & Tibbetts, expressing . 2 30
Blackall's express, " . 75
Thorpe's express, " . 75
M. G. Steele, teaming 36 11
Martin Gill, " 76 10
Caldwell & Staples, teaming 9 50
J. F. Manning, '' 3 00
Philip McGovern, labor 2 00
F. Ivers & Son, repairing wagon . 7 25
F. E. Foster & Co., " 11 50
L. H. Brown, use of wagon 11 50
E. H. Bright, ditch pump 9 00
Charles Booth, reporting leak 2 00
Hugh H. Herrick, " 2 00
City of Boston, water 16 80
, 8
, ,
Charles M. Grant, compensation for
damages 30 00
John A. Hart, compensation for
damages 100 00
Hannah Stone, compensation for
damages 10 00
Town of Melrose, rebate on bill . 12 50
City of Boston, water rates 3 28
W. C. Crane, insurance 59 25
\$16,885 05
·
Excess and deficiency, balance to credit of account
credit of account
41,100 11

WATERING STREETS.

CREDIT.

Appropriation, amount assess Interest, transferred Cash, received of abutters	•	•	•		• .	4,891	46 26
						\$7,931	72
	DEB	IT.					
Cash, paid Christopher Burke	e, wat	tering	•	\$430	00		
T. F. Cummings,		"		240	40		
J. F. Elkins,		"	•	439	20		
Celia Faulkner,		66		439	00		
Martin Gill,		66		430	60		
John Hickey,		66	•	152	80		
Jeremiah McCarthy,		46		330	40		
George McKenna,		"		463	20		
A. M. Prescott,		66		459	60		
J. J. Underhill,		66		364	40		
John Walsh,		66		433	20		
Abbott Downing Comp	any,	wate	r-				
ing cart				425	00		
Mark Laighton, building	shed	d.		250	00		
Richard A. Stevens,							
work				2	52		
Hall Rubber Company, 1	nose			5 0	00		
Boston Belting Company	, hos	se		22	50		
Boston Woven Hose Con	npany	y, hose	э,	9	90		
J. Leland, repairing cart	is	•		55	35		
Wm. T. Henderson, repa	airing	g cart	s,	15	50		
Howe & Flint,	6.	66		5	75		
H. G. Collins,	66	6.		1	50		
F. Dooris,	66	66		1	50		
Seward Dodge,	66	66		112	47		
E. Spaulding,	"	"			75		
Stephen Buttimer, clean	ing c	earts		16	50		
Decker & Holton, coppe				2	06		
Amounts carried forwar	d	•		\$5,154	10	\$7,931	72

Amounts brought forward .	\$5,154	10	\$7,931	72
J. H. Flitner & Co., pitch, tar, etc.,	4	37		
J. O. Hayden & Co, printing.	20	70		
Aaron R. Gay, stationery	2	7 5		
W. C. Crane, insurance.	46	75		
City of Boston, water	2,489	51		
Water-service account, stand-pipes,				
etc	213	54		
			\$7,931	72

TABLE D.

BALANCES DEC. 31, 1886.

Cash			•	\$9,579	75		
Excess and deficiency			•			\$20,879	58
Funded debt	•					1,525,000	00
Highway betterment as	sessi	nents		987	24		
Overlay and abatement						3,903	34
Overplus on tax sales			•			233	96
Public property .				1,250,441	70		
Property and debt balan				274,558	30		
Real-estate liens .				728	10		
State of Massachusetts,	Sta	te aid		3,560	00		
State of Massachusett	ts,	indige	nt				
soldiers and sail	ors	•		451	00		
Sidewalk assessments	•	•	•	3,446	97		
Sewer assessments		•		6,467	86		
Sundry persons	•	•	•			1,231	44
Schoolhouse in Ward T	hree					668	26
Schoolhouse in Ward Fo	our					816	68
Temporary loans .		•	•			150,000	00
Taxes				151,595	42		
Water-service assessmen				916	92		
				\$1,702,733	26	\$1,702,733	26



REPORT

OF THE

COMMISSIONERS OF THE SINKING FUNDS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 26, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, Clerk.

Concurred in.

IN COMMON COUNCIL, Jan. 27, 1887.

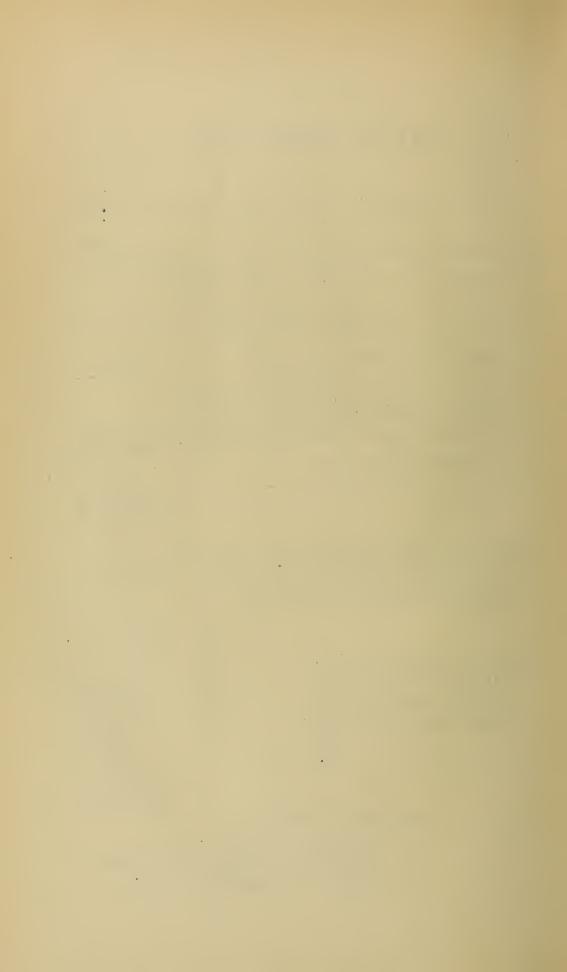
DOUGLAS FRAZAR, Clerk.

CITY OF SOMERVILLE.

IN BOARD OF COMMISSIONERS OF THE SINKING FUNDS, Jan. 8, 1887.

Jan. 8, 1887.	
To the Honorable the Mayor and the City Council of the City	of Somerville:
GENTLEMEN, - The undersigned present herewith	the eleventh
annual report of the condition of the sinking funds of	
The amount of the funds, Jan. 1, 1886, as per the	
tenth annual report, was	\$ 517,158 18
The additions thereto during the year 1886 were:	
Contribution by the city for the year	40,725 00
Interest on investments in city bonds (\$473,000	
one year, and \$8,500 six months, at 5 per cent	
per annum, and \$40,000 one year, at $5\frac{1}{2}$ per	
cent per annum)	26,062 50
Interest on deposit in bank	106 73
A total of	\$584,052 41
Invested as follows:—	
In bonds of the city of Somerville (\$541,500	
at 5 per cent, and \$40,000 at $5\frac{1}{2}$ per cent) .	\$581,500 00
On deposit in Maverick National Bank	2,552 41
	\$584,052 41
•	5304,032 41
The several sinking funds are: —	
· · · · · · · · · · · · · · · · · · ·	\$499,603 18
Sewer loan maturity of 1896	13,778 00
Water loan maturity of 1905 ·	67,126 23
" " 1906	1,886 00
" " " 1907	1,659 00
	\$584,052 41
Respectfully submitted,	
NATIAN THE	

NATHAN TUFTS, HENRY F. WOODS, EZRA D. CONANT,



REPORT

OF

THE SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN SCHOOL COMMITTEE, Dec. 27, 1886.

The superintendent submitted his annual report, which was read and accepted. It was voted that the committee adopt the report now submitted by the superintendent of public schools, and present it to their fellow-citizens as the report of the school committee for the year 1886.

J. H. DAVIS, Secretary.

IN BOARD OF ALDERMEN, Feb. 23, 1887.

Referred the report to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, Clerk.

IN COMMON COUNCIL, Feb. 24, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

BOARD OF SCHOOL COMMITTEE, 1886.

Hon. MARK F. BURNS, Mayor, Chairman, ex officio.

WALTER C. MENTZER, President of the Common Council, ex officio.

WARD ONE.

HORACE C. WHITE, M. D.		•			Term	expires	1886.
JOHN H. BUTLER				۰	66	٤ د	1887.
JOHN H. BUTLER S. NEWTON CUTLER .	•				6.6	66	1888.
W	ARD	TW	Ο.				
MRS. CORNELIA B. SKINNE	R *			۰	Term	expires	1886.
CHARLES I. SHEPARD .		•			"	6 6	1887.
ALPHONSO H. CARVILL, M	. D.				6.6	۲.6	1888.
WA	RD	THR	EE.				
Q. E. DICKERMAN					Term	expires	1886.
WILLIAM P. HILL	•				٤ ٤	66	1887.
NORMAN W. BINGHAM.			0		66	۷ ډ	1888.
w	ARD	FOL	JR.				
H. P. MAKECHNIE, M. D.		•			Term	expires	1886.
MARTIN W. CARR PROF. BENJAMIN G. BROW	N				6.6	66	1888.

J. H. DAVIS,

Superintendent and Secretary.

^{*}On account of ill-health, Mrs. Skinner resigned her position as member of the School Committee, Jan. 9. The vacancy thus occasioned was filled Jan. 20, in convention of the City Council and the School Board, by the election of James F. Beard, Esq.

STANDING COMMITTEES, 1886.

High School.

MESSRS. WHITE, BROWN, CARVILL, BINGHAM, BUTLER, DICKERMAN.

East Somerville Schools.

MESSRS. BUTLER, WHITE, CUTLER, MAYOR BURNS.

Prospect Hill Schools.

MESSRS. CARVILL, SHEPARD, MRS. SKINNER.*

Winter Hill Schools.

MESSRS. HILL, BINGHAM, DICKERMAN.

Spring Hill Schools.

MESSRS. CARR, MAKECHNIE, MENTZER.

West Somerville Schools.

MESSRS. BROWN, MAKECHNIE, CARR.

Evening Schools.

MESSRS. DICKERMAN, WHITE, BROWN, CUTLER, MRS. SKINNER.

Examination of Teachers.

MESSRS. BROWN, BUTLER, CARVILL.

Text-Books.

MESSRS. WHITE, SHEPARD, CARR, BUTLER, BINGHAM.

Repairs and Heating Apparatus.

MESSRS. CARR, SHEPARD, CUTLER, MENTZER, HILL.

School Supplies.

MESSRS. CARR, BINGHAM.

Fuel.

MESSRS. MENTZER, CARVILL, MAKECHNIE.

Music.

MESSRS. BINGHAM, WHITE, MRS. SKINNER.

Finance.

MESSRS. CARVILL, CARR.

Drawing and Penmanship.

MESSRS. DICKERMAN, BUTLER, SHEPARD.

Salaries.

MESSRS. HILL, CARVILL, BROWN, CARR, BUTLER.

Approval of Private Schools.

MESSRS. MAKECHNIE, BINGHAM, BUTLER, MRS. SKINNER.

Additional School Accommodations.

MAYOR BURNS, MESSRS. BUTLER, BINGHAM, CARVILL, CARR.

Examination of the First Class.

MESSRS. CARVILL, WHITE, MAKECHNIE, DICKERMAN.

Examination of Second Class.

MESSRS. BROWN, CUTLER.

Examination of Third Class.

MESSRS. BINGHAM, CARR.

Examination of Fourth Class.

MESSRS. BUTLER, HILL.

Examination of Fifth Class.

MESSRS. MAKECHNIE, SHEPARD.

Examination of Sixth Class.

MRS. SKINNER, MR. MENTZER.

^{*} By vote of the Board, Jan. 25, the name of Mr. Beard was substituted for that of Mrs. Skinner on all Standing Committees of which she had been chosen a member.

BOARD OF SCHOOL COMMITTEE, 1887.

Hon. MARK F. BURNS, Mayor, Chairman, ex officio.

CHARLES L. NORTH, President of the Common Council, ex officio.

WARD ONE.

JOHN H. BUTLER . S. NEWTON CUTLER . HORACE C. WHITE, M. D.					6.6	expires	1887. 1888. 1889.
	WA	RD .	TWO.				
CHARLES I. SHEPARD			٠		Term	expires	1887.
ALPHONSO H. CARVILL,						66	
JAMES F. BEARD .					6.6	6.6	1889.
WILLIAM P. HILL . NORMAN W. BINGHAM QUINCY E. DICKERMAN					66	expires	1887. 1888. 1889.
	WAF	RD F	FOUR				
MARTIN W. CARR .						expires	1887.
PROF. BENJ. G. BROWN							1888.
HORACE P. MAKECHNIE,	M. I).			66	6.6	1889.

J. H. DAVIS,
Superintendent and Secretary.

STANDING COMMITTEES, 1887.

High School.

MESSRS. WHITE, BROWN, CARVILL, BINGHAM, BUTLER, DICKERMAN BEARD, MAKECHNIE.

East Somerville Schools.

MESSRS. CUTLER, WHITE, BUTLER, BURNS.

Prospect Hill Schools.

MESSRS. SHEPARD, BEARD, NORTH, CARVILL.

Winter Hill Schools.

MESSRS. BINGHAM, DICKERMAN, HILL.

Spring Hill Schools.

MESSRS. CARR, BROWN, MAKECHNIE.

West Somerville Schools.

MESSRS. MAKECHNIE, BROWN, CARR.

Evening Schools.

MESSRS. DICKERMAN, BROWN, BEARD, CUTLER.

Examination of Teachers.

MESSRS. BROWN, BUTLER, CARVILL.

Text-Books.

MESSRS. BUTLER, SHEPARD, HILL, CARR, WHITE, BINGHAM.

Repairs and Heating Apparatus.

MESSRS. SHEPARD, CUTLER, MAKECHNIE, HILL, NORTH.

School Supplies.

MESSRS. HILL, CARR.

Fuel.

MESSRS. NORTH, MAKECHNIE, CARVILL.

Music.

MESSRS, CUTLER, BINGHAM, MAKECHNIE, BEARD.

Finance.

MESSRS. BEARD, CARR.

Drawing and Penmanship.

MESSRS. MAKECHNIE, DICKERMAN, CUTLER, SHEPARD.

Salaries.

MESSRS. CARVILL, BROWN, CARR, BUTLER, HILL.

Approval of Private Schools.

BROWN, DICKERMAN, CUTLER, BEARD.

Additional School Accommodations.

MAYOR BURNS, MESSRS. CARVILL, BROWN, WHITE, HILL.

Examination of First Class.

MESSRS. [CARVILL, WHITE, MAKECHNIE, DICKERMAN.

Examination of Second Class.

MESSRS. BROWN, CUTLER.

Examination of Third Class.

MESSRS. BINGHAM, CARR.

Examination of Fourth Class.

MESSRS. BUTLER, HILL.

Examination of Fifth Class.

MESSRS. MAKECHNIE, SHEPARD.

Examination of Sixth Class.

MESSRS. BEARD, NORTH.

CITY OF SOMERVILLE.

To the School Committee of Somerville:

Gentlemen, — In accordance with your instructions, and in compliance with statute requirements, the following report upon the condition of the public schools of this city for the year 1886 is respectfully submitted:—

In the preparation of the report it has been my endeavor to communicate as briefly as possible, by statistics and concise statements, such facts pertaining to the schools and their various appointments as may be of general interest.

SUMMARY OF STATEMENTS.

POPULATION.

Population of the city, United States census, 1880.	24,985
" State census, 1885	29,992
Number of persons in the city between five and fif-	
teen years of age in May last	5,296
Number between eight and fourteen years of age .	3,557
VALUATION.	
Valuation of the city, May 1, 1886	\$26,003,200
Real estate \$24,124,700	
Personal estate 1,878,500	
Rate of taxation	.0154
Estimated value of school property	\$413,714

EXPENDITURES FROM JAN. 1, 1886, TO JAN. 1, 1887. BY THE SCHOOL COMMITTEE.

Salaries of teachers							\$80,942 26
" " janitors .			•		•		4,020 32
" " truant office	rs						600 00
Salary of superintender	rt.	•	•				2,000 00
Water				•			411 77
Gas							207 31
Text-books			•				2,322 30
Writing books .							371 90
Drawing books .							517 34
Printing				•			436 00
Stationery, and other s	uppl	lies	•				1,774 64
Miscellaneous .		•			. •		$1,332\ 56$
Total expenditures	ş .				٠.	•	\$94,936 40
		RECE	IPTS.				
Tuition of non-resident							298 56
Net expenditures							\$94,637 84

SCHOOLHOUSES.

Two school buildings, of four rooms each, are now in process of construction, and will be ready for use early in the coming summer.

One of these buildings is located on Lowell Street in Ward Three, and the other on Cherry Street in Ward Four.

Both buildings are constructed of brick, and so constructed that they may be enlarged, without additional cost for stairs and entries, whenever enlargement may be demanded by the necessities of the neighborhoods where they are located.

The plans and specifications were furnished by Geo. F. Loring, Esq, of this city. The contractors are Messrs. J. H. Coon & Co., of Boston.

Cost of each building, exclusive of furniture	and h	eat-		
ing apparatus			\$10,500	00
Cost of land on Lowell Street, 20,806 feet			1,880	64
Cost of land on Cherry Street, 16,080 feet			1,929	60

As a token of respect for his Honor Mayor Burns, and Norman W. Bingham Esq., of the School Board, and in recognition of valuable services rendered the city by these gentlemen, in their respective places of trust, the building on Cherry Street has been named the Burns Schoolhouse, and the building on Lowell Street the Bingham Schoolhouse.

When these buildings are completed, the city will own twentythree schoolhouses, containing one hundred and twenty schoolrooms, and seats for about six thousand pupils

During the summer vacation, steam-heating apparatus was substituted for furnaces in the Luther V. Bell Schoolhouse.

TABLE SHOWING THE NAME, LOCATION, DATE OF ERECTION, ESTIMATED VALUE, AND CAPACITY OF THE SEVERAL SCHOOL BUILDINGS.

Forster S. Prescott P Edgerly C Davis T L. V. Bell V Cummings S. Prospect Hill	Highland Avenue		1			No. of
Bennett . Jo Jackson . P Webster . W Union . P Morse . S Beech Street . B Spring Hill . R Franklin . S Harvard . B Highland . H Lincoln . B Cedar Street . C Bingham . L	Sycamore Street Cearl Street Cross Street Vinst Street Vinal Avenue School Street Jedford Street Oy Street Oy Street Oy Street Oy Street Viplar Street Webster Avenue	(Before	1871 1866 1867 1871 1884 1874 1848 1861 1868 1842 1869 1872 1850 1846 1851 1880 1385 1843 1886	32,693 21,444 26 428 29,584 22,262 11,300 25,313 10,019 20,560 11,212 11,050 9,360 29,109 6,000 4,991 33,017 9,810 23,260 17,662 20,896 16,080	\$44,000 39,422 42,000 43,100 18,333 43.000 15,357 20,600 6,250 8,300 8,300 2,600 4,750 1,700 14,300 2,600 33,000 15,487 \$00 —	9 13 12 8 4 12 4 4 4 4 1 7 2 1 4 1 8 4 4 4 1 7 2 1 4 4 4 4 1 7 2 1 4 4 1 1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4

TEACHERS.

During the year, ten teachers have resigned, thirteen have been elected, and two—Miss Susie A. Mattoon and Miss Kate L. O'Brien—have died. Both of these teachers were residents of this city, and graduates of our high school. They were young ladies of most estimable character, and were highly esteemed as teachers. By their fidelity, devotion, and urbanity, they won the affectionate regard of their pupils and the confidence of parents and the members of the school committee.

ELECTED.

Mr. Herbert L. Morse, principal of the L. V. Bell School.
Mr. Horatio D. Newton, principal of the Morse School.
Miss Lillian M. Walton, teacher in the L. V. Bell School.
Miss Alice M. Wight, teacher in the L. V. Bell School.
Miss Ellen M. Farnsworth, teacher in the L. V. Bell School.
Miss Addie M. Brown, teacher in the Cummings School.
Miss Sarah A. Tuttle, teacher in the Prospect Hill School.
Miss Annie Sheridan, teacher in the Bennett School.
Miss Fannie L. Gwynn, teacher in the Jackson School.
Miss Estelle E. Patrick, teacher in the Webster School.
Miss Nelly W. French, teacher in the Beech Street School.
Miss Emeline S. Curtis, teacher in the Highland School.
Miss Charlotte F. Mott, teacher in the Lincoln School.

RESIGNED.

Mr. Henry C. Parker, principal of the Morse School.
Mr. Robert Bickford, principal of the L. V. Bell School.
Miss Minnie H. Marden, teacher in the L. V. Bell School.
Miss Anna M. Snow, teacher in the L. V. Bell School.
Miss L. Gertrude McIntire, teacher in the Prescott School.
Miss Maria L. Macurdy, teacher in the Prospect Hill School.
Miss Helen M. Meade, teacher in the Beech Street School.
Miss Hattie L. Furber, teacher in the Franklin School.
Miss Alice P. Lord, teacher in the Highland School.
Mrs. Clara J. Whittemore, teacher in the Webster School.

Mr. Bickford was elected principal of the Prescott School in September, 1851, and principal of the high school in May, 1852, which position he occupied until March, 1854, when he resigned to accept the place of principal of a high school in Roxbury. He was elected principal of the L. V. Bell School in September, 1879, and closed his connection with that school, at the end of the school year in June last.

Mr. Parker, the efficient and highly esteemed principal of the Morse School, received his appointment in September, 1884, and resigned early in the present month, to accept the place of submaster in the Dwight School, Boston.

Mr. Morse, who succeeds Mr. Bickford, and Mr. Newton, the successor of Mr. Parker, have had several years of successful experience as principals of important schools in different sections of the State.

Whole number of teachers	120
Male teachers, 9; female teachers, 111.	
Number of teachers in the high school	9
Male teachers, 3; female teachers, 6.	
Number of teachers in the grammar schools	62
Male teachers, 5; female teachers, 57.	
Number of teachers in the primary schools	48
One teacher of vocal music.	
Number of teachers who are graduates of our high school, 52.	
Number of teachers who are graduates of normal schools, 42.	

The average term of service of our present corps of teachers is six and two thirds years.

SCHOOLS AND TEACHERS.

Sc	HOOLS.		,	TEACHERS.		SALARY.	When Elected.
High .				George L. Baxter .		\$2,400	1867
				Frank M. Hawes .	. (1,800	1879
				Fred B. Hall	. [1,000	1885
	•		•	Sarah W. Fox		1,200	1868
				Sarah F Litchfield .		850	1880
	•			Fannie W. Kaan .		850	1882
	•		•	Eudora Morey	.	800	1882
	٠			Minnie C. Clark .		800	1882
	•	•	•	Laura E. Giddings .		800	1882
Forster	•	•	•	John S Hayes	• [1,800	1878
66	•	•	•	Mary E. Northrup .	•	675	1878
- 66	•	•	•	Mary E. Stiles	•	600	1883
66	•	•	•	Agnes L. Adams	•	600 600	188 4 1885
66	•	•		Frances M. Guptill .	•	600	1869
66	•	•		Lizzie F. Clement .		575	1884
6 6	•			Addie S. Winnek .		575	1883
6 6				Alice A. Batchelor .		575	1877
6 6				Martha H. Pennock .		550	1873
66				Leila V. Colby		550	1879
66		•		Annie S. Gage		550	1883
4 6				Lizzie G. Perry	. 1	550	1878
6 6				Mary A. Osborne .		550	1885
66				Nora F. Byard	. 1	400	1884
Prescott				G. A. Southworth .		1,900	1873
6.6				Anna M. Bates	.	700	1874
6.6				Adelaide Reed		65 0	1877
"	•	•		Amy C. Hudson	.)	600	1885
	•			Abbie A. Anderson .		600	1878
	•	•		Emma M. Cate		600	1882
66	•	•		Amelia I. Sears		600	1873
6.	•	•		Catharine T. Brown.	•	575	1868
66	•	•	•	Clara Taylor		575	1871
"	•	•	•	Sarah E. Pratt	٠	600	1877
- 66	•	•	•	Elgina M. Plummer .	•	550	1877
Edgerly	•	•		Florence M. Morton . Frank P. Hudson .	.	550 800	1882 1877
ragerry (•	•		Harriette H. Winslow	•	600	1881
66	•	•	. 1	Hattie M. Pierce .		575	1882
"				Fannie F. Fuller .	•	575	1884
66				Anna L. Prescott .		550	1873
4.6				Lillian Nealley		550	1882
66				Clara M. Bagley .		550	1873
46				Ada Cowles		550	1875
Davis .				Lucretia A. Burns .		625	1882
				Florence A. Robinson		550	1883
6.6				Gertrude A. Earle .		400	1884
66				Priscilla A. Merritt .		475	1885

SCHOOLS AND TEACHERS. - Continued.

Schools.	TEACHERS.	SALARY.	When Elected.
Luther V. Bell .	. Herbert L. Morse	\$1,600	1885
Luther V. Berr	. Abbie C. Hunt	675	1873
66	. May E. Berry	675	1880
66	Lillian M. Walton	600	1886
	. Hattie E. Adams	600	1885
	. Ellen M. Gooding	600	1868
	. Alice M. Wight	525	1886
	. Fannie A. Wilder	600	1874
	. Emma F. Schuh	600	1874
	. Nellie A. Hamblin	600	1882
	Ellen M. Farnsworth .	575	1886
	Elvira Morrill	575	1884
	Eliza L. Schuh	550	1882
Cummings	. Lydia J. Page	625	1869
	. Addie M. Brown	325	1886 1877
	Augusta M. Houghton	550 400	1884
Prospect Hill	Halon Windren	700	1872
rospect Him .	Canal 1 Truttle	300	1886
66	Ellen Ledyard	575	1874
	. Mary B. Currier	550	1873
	Lucy E. Clark	400	1884
66	. Charlotte I. Houghton .	550	1875
Brastow	. Maria Miller	575	1870
	. Helen M. Dodge	400	1884
Bennett	. Mary B. Smith	625	1885
	. Lizzie W. Parkhurst	550	1885
	. Annie Sheridan	300	1886
	. Isadore E. Taylor	475	1883
Jackson	. Annie E. McCarty	625	1880
	Fannie L. Gwynn	300	1886
	Lena G. Allen	400	1884
Webster	. Annie E. Crimmings	400	1884
webster	. Alice I. Norcross Estelle E. Patrick	625 550	1886
	. Annie L. Savage	550	1873
Union	Isabella M. Prince	550	1876
Morse	Horatio D. Newton	1,600	1886
(6	. Mina J. Wendell	675	1882
	. Stella Hall	600	1884
"	Pauline S. Downes	600	1872
"	. Anna E. Sawyer	600	1873
"	. Ella F. Gould	600	1882
	. Mary A. Haley	575	1868
	. Laura J. Brooks	575	1883
"	. Minnie S. Turner	325	1885
Beech Street .	. Mary E. Bosworth	600	1882
~	. Nelly W. French	550	1886
Spring Hill .	. Bertha L. Emerson	550	1885

SCHOOLS AND TEACHERS. - Concluded.

	TEACHERS.	SALARY.	When Elected.
Franklin	Hattie A. Hills	\$650	1874
"	Emeline C. Summerhayes .	575	1876
	Anna C. Damon	550	1879
((Caroline S. Plimpton	550	1859
Harvard	Annie E. Robinson George E. Nichols	$550 \\ 1,700$	1876 1877
ingmand	Lilla A. Hayward	675	1881
"	Alice E. Gage	600	1884
	Evelyn E. Getchell	600	1885
	Florence N. Robbins	600	1885
	S. Adelaide Blood Annie R. Cox	575 575	1882 1883
	Sarah E. Pray	550	1878
	Emeline S. Curtis	475	1886
	Hallie M. Wood	550	1884
rimoslu.	Annie L. Browne	$\begin{array}{c} 400 \\ 625 \end{array}$	1885
cincoin	Jennie Colburn	575	1875
	Charlotte F. Mott	550	1886
~	Annie C. Thayer	325	1885
Cedar Street	Alice Simpson	550	1872
Teacher of Music .	Alice M. Porter	$\frac{550}{1,333}$	1880
	PUPILS.		
Number of pupils in	attendance January .		
			5,141
Estimated number of	f persons in the city betwe		5,14
Estimated number of			5,14
Estimated number of	f persons in the city betwe		5,14
Estimated number of and fifteen years last	f persons in the city between s of age, on the first day of the city between the city betwe	of May	
Estimated number of and fifteen years last	f persons in the city betwe	of May	5,29
Estimated number of and fifteen years last Estimated number be age	f persons in the city between eight and fourteen y	of May	5,29 3,55
Estimated number of and fifteen years last Estimated number be age Number in attendance	f persons in the city between s of age, on the first day of the city between eight and fourteen your ce in December	of May ears of	
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high	f persons in the city between s of age, on the first day of the city between eight and fourteen your certain December	of May ears of	5,29 3,55
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram	f persons in the city between s of age, on the first day of the city between eight and fourteen your certain December	of May ears of	5,29 3,55
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima	f persons in the city between s of age, on the first day of the city between eight and fourteen your certain December	of May ears of	5,29 3,55 5,31
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima	f persons in the city between sof age, on the first day of the city between eight and fourteen years of age in December.	of May ears of 363 2,638 2,316	5,29 3,55 5,31
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima Number over fifteen in the high	f persons in the city between sof age, on the first day of the city between eight and fourteen years of age in December to the city schools to the city schools to the city schools to the city schools to the city school to the city school to the city between eight and fourteen years of age in December school to the city between	of May ears of 363 2,638 2,316	5,29 3,55 5,31
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima Number over fifteen years. In the high In the gram	f persons in the city between sof age, on the first day of the city between eight and fourteen years of age in December schools. The persons in the city between eight and fourteen years of age in December schools. The persons in the city between eight day of age in December schools.	of May ears of 363 2,638 2,316	5,29 3,55 5,31
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima Number over fifteen in the high	f persons in the city between sof age, on the first day of the city between eight and fourteen years of age in December schools. The persons in the city between eight and fourteen years of age in December schools. The persons in the city between eight day of age in December schools.	of May ears of 363 2,638 2,316	5,29 3,55
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima Number over fifteen In the high In the gram Un the gram In the gram In the gram Whole number regist	f persons in the city between sof age, on the first day of the city between eight and fourteen year school	of May ears of 363 2,638 2,316	5,29 3,55 5,31
Estimated number of and fifteen years last Estimated number be age Number in attendance In the high In the gram In the prima Number over fifteen years. In the high In the gram	f persons in the city between sof age, on the first day of the city between eight and fourteen year school	of May ears of 363 2,638 2,316 324 232	5,29 3,55 5,31

TABLE

SHOWING THE NUMBER OF PUPILS IN EACH OF THE THIRTEEN CLASSES IN DECEMBER, THE AVERAGE AGE OF PUPILS IN EACH CLASS, AND THE PER CENT THAT THE NUMBER IN EACH CLASS IS OF THE NUM-BER IN ALL THE CLASSES.

GRADE.	Class.	Boys.	Girls.	Total.	Avera	Per Cent.	
High	Second	15 25	42 44	57 69	18 years	6 "	1.07 1.30
	Third Fourth	36 65	64 72	100 137	16 " 15 "	4 "8	1.88 2.58
Grammar .	Second	118 136 219	127 162 199	245 298 418	14 '' 14 '' 13 ''	9 "	4.61 5.60 7.86
66 .	Fourth	284 312 346	240 233 262	524 545 608	12 " 11 " 10 "	5 · · · 6 · · · 6	9.85 10.25 11.44
Primary :	First Second .	360	270	630 681	9 "	3 "	11.85
	Third .	580	425	1,005	6	4 "	18.90
		2 852	2,465	5,317			100.00

ATTENDANCE.

Average	whole number in	all t	he scho	ools	for the year	. 4,984.7
	high school .				. 349.5	
	grammar schools	•			2,447.4	
	primary schools		•		2,187.8	
$\mathbf{A} \mathbf{verage}$	attendance in all	the s	schools	for	the year .	. 4,678.0
	high school .				. 333.3	
	grammar schools				2,328.4	
	primary schools					
Per cent	of attendance in	all t	he scho	ols	for the year	. 93.8
	high school .		•	•	. 95.4	
	grammar schools					
	primary schools					
Number	of tardinesses in	all th	ne scho	ols	for the year	. 2,834
	high school .		•	•	. 392	
	grammar schools		•	•	. 1,019	
	primary schools				. 1,423	

Number	of dismissals in a	ll the	schools	for th	ne year	2,509
	high school .	•			571	
	grammar schools	•			1,284	
	primary schools				654	

Our city has always made ample provision for the education of all persons of school age within its limits; but either from inability or disinclination, large numbers do not avail themselves of the opportunities liberally furnished them for securing an education and all the benefits which might accrue.

Our statistics show that only about ninety per cent of all persons in the city between five and fifteen years of age are in school at any given time; that only thirty per cent of our pupils complete the course of study prescribed for the grammar schools; that only sixty-five per cent of the grammar-school graduates enter the high school; and that only forty-two per cent of those who enter the high school complete the entire public school course, and receive diplomas of graduation. It will be seen by reference to the table on page 139, that more than one half of all the pupils in the thirteen classes constituting the schools, are in the primary schools and the sixth class of the grammar schools.

TRUANCY.

We ascertain from the monthly reports of the truant officers that, of the seven hundred and sixty-four absentees whose cases were investigated, three hundred and thirty-four were found to be truants. Three habitual truants have been sent to the House of Reformation in Lowell.

The number of cases of truancy reported does not indicate the actual number of truants, since pupils frequently repeat their offence, and their names recur in different reports. But the prevalence of truancy is sufficient to awaken solicitude, and the magnitude of the evils resulting therefrom should lead to the adoption and exercise of all precautionary measures at our disposal. We must labor earnestly to make the schools attractive as well as profitable, and diligently employ all available moral influences to secure greater regularity of attendance and to diminish the number of truants. Truant officers can exert a restraining influence by their vigilance, and by frequent visits to the homes of delinquents and to the by-places where they are prone to resort.

In the treatment of truants, firmness should be accompanied by kindness. As a rule, truants are unfortunate in their homes and all their surroundings, and, not infrequently, are "more sinned against than sinning." Herbert Spencer says: "We do not hesitate to say that to parental misconduct is traceable a great part of the domestic disorder commonly ascribed to the perversity of children." In dealing with the unfortunate and the erring we should refrain from appeals to processes of law, until all other means prove ineffectual, and should avoil whatever tends to diminish self-respect and the respect of others. It has been wisely said, "The first step downward is to sink in the estimation of others; the next and fatal step is to sink in one's own estimation."

SCHOOLS.

Whole number of schoo's	•			•	104
High school .		•		1	
Grammar schools			•	56	
Primary schools.		•		47	

The first class in the Luther V. Bell schoolhouse occupies two schoolrooms, but it is regarded as one school in this enumeration.

PRIMARY SCHOOLS

One primary school was established in the basement of the Morse Schoolhouse in September.

Number of primary schools		•	47
Number of pupils in attendance in January .	•		2,244
Number admitted during the year			819
Number promoted to the grammar schools .			487
Number in attendance in December			2,316
Boys, 1,296; girls, 1,020.			
Average number to a teacher, at the present time	•		49
Whole number registered during the year .			3,063

The primary schools are in a satisfactory condition. Many of them may be regarded as model schools. Pupils are making commendable progress in school work, and are learning the "cardinal lessons of punctuality, promptness, cleanliness, silence, industry, self-control, attention, and application." Their school life is made enjoyable as well as profitable, and they are acquiring a fondness for school and its duties.

EXHIBIT OF THE PRIMARY SCHOOLS.

Forster	M. H Pennock . L. V. Colby . A. S. Gage .	Average Whole No.	Average Attendance.	Per Cent of Attendance.	Tardinesses.	Dismissals.
	L. V. Colby .	. 43.0				H
٠.	L. V. Colby .	, , , ,	40.2	93.5	8	5
•	A. S. Gage	41.0	39.0	95.1	7	6
11		47.0	43.6	92.8	5	4
•	L. G. Perry	92.1	84.4	91.7	13	3
Duranath.	N. F. Byard .	43.3	40.6	93.9	4	16
Prescott .	S. E. Pratt E. M. Plummer	46.5	43.7	94.1 91.9	4	11
66	F. M. Morton .	44.5	54.2	93.5	10	14
Edgerly :	A. L. Prescott .	47.8	45 6	95.3	7	7
Eagerly .	Lillian Nealley .	48.0	45 2	94.2	10	12
66	C. M. Bagley .	44.2	40.7	92.1	12	4
"	Ada Cowles .	45.1	39.2	87.0	23	4
Davis	F. A. Robinson.	37.2	35.2	94.5	19	16
	G. A. Earle	42.1	38.7	91.9	17	9
- "	P. A. Merritt	50 9	47.0	92.2	21	4
L. V. Bell .	E. L. Schuh	43.3	39.9	92.3	9	4
Cummings .	A. M. Brown	50 3	46 4 49.1	92 2 90.2	43 30	16 1
	A. M. Houghton Annie Coffin .	54.4	43.1	90.2	10	$\frac{1}{22}$
Prosp't Hill,	M. B. Currier	56.4	52.6	93.2	24	17
(6	L. E. Clark	45.4	42.2	92.9	21	43
66	C. I. Houghton	44.6	40.1	90.0	38	13
Brastow .	H. M. Dodge .	48.9	45.6	93.3	19	15
Bennett .	L. W. Parkhurst .	45.5	42.3	92.9	41	10
	Annie Sheridan .	46.2	42.1	91.0	63	24
	I. E. Taylor		49.1	88.9	57	8
Jackson .	F. L. Gwynn	44.6	40.7	91.2	90	22
	L. G. Allen	47.1	43.2	91.6	104	5
•	A. E. Crimmings .	59.4	55.4	93.2	153	0
Webster .	C. J. Whittemore . A. L. Savage	$\frac{32.2}{49.0}$	$\begin{array}{c c} 30 \ 0 \\ 46.6 \end{array}$	$93.1 \\ 95.1$	85 58	38 22
Union :	I. M. Prince	54.2	51.0	94.1	13	2
Morse .	M. S. Turner	28.5	26.0	91.2	10	13
Beech Str't,	M. E. Bosworth .	38.2	36.2	94.8	6	19
"	H. M. Meade	41.7	39.2	94.0	14	23
Spring Hill,	B. L. Emerson	48.6	45.5	93 7	36	31
Franklin .	A. C. Damon	42.0	38.2	90.9	39	28
"	C. S. Plimpton	58.2	56.1	96.3	29	14
Harvard .	A. E. Robinson .	44.0	40.5	92.0	72	25
Highland .	S. E. Pray E. S. Curtis	49.6	$\begin{array}{ c c }\hline 46.4\\ 44.3\end{array}$	93.6 91.4	40 19	4
	H. M. Hood	48.7 36.6	33.0	90.0	22	13 10
	A. L. Browne	28.6	25.6	89.6	12	23
Lincoln .	C. F. Mott	43.3	39.5	91.2	3	9
"	A. C. Thayer	48.6	42.2	86.9	17	4
Cedar Str't.	Alice Simpson	39.7	35.5	89.4	35	47
	A. M. Porter	36.4	30.6	84.1	45	10
Total .		2,187.8	2,016.3	92.2	1,423	654

GRAMMAR SCHOOLS.

The customary exhibitions of the grammar schools were omitted at the close of the school year. Near the end of the year, a day was appointed on which every school in the city was open to the inspection of parents and others interested. On that day all specially arranged exercises were prohibited, and the regular daily work of the schools was exhibited.

At the close of the year all graduates of the several grammar schools assembled in one place, and received from the city the diplomas to which they were entitled.

The occasion on which the graduates received their diplomas was one of unusual interest, as may be inferred from the following programme of exercises:—

GRAMMAR SCHOOL GRADUATES' DAY.

THURSDAY, JULY 1, AT 7 O'CLOCK P. M.

ORDER OF EXERCISES.

1. PRAYER. REV. GEORGE W. DURRELL.

2. SINGING. — "Gloria — 12th Mass."

Mozart.

- 3. ADDRESS. HIS EXCELLENCY GOV. GEORGE D. ROBINSON.
- 4. SINGING. "Forsaken."

Koschat.

- 5. ADDRESS. Hon. Selwyn Z. Bowman.
- 6. SINGING. "Night sinks on the Wave."

Smart.

- 7. ADDRESS. REV. ELMER H. CAPEN, President of Tufts College.
- 8. PRESENTATION OF DIPLOMAS. MAYOR MARK F. BURNS.
- 9. SINGING. "Protect us through the Coming Night." Curschmann.

LUTHER V. BELL SCHOOL.

DISTRICT COMMITTEE.

ALPHONSO H. CARVILL, M. D. CHARLES I. SHEPARD. JAMES F. BEARD.

Principal, ROBERT BICKFORD.

Sub-Master, Herbert L. Morse. Assistant, Abbie C. Hunt.

GRADUATES.

Clarence C. Bartlett. Walter E. Barton. Joseph B. Belliveau. James A. Campbell. George A. Clark. Walter M. Daniels. George E. Davis. Nathaniel J. Doane. Charles A. Draper. Willard H. Everton. Frederick W. Fitts. Hiram A. Gillett. Henry Y. Gleason. Robert D. Graham. George E. Howe. Frank S. Hight. Harry M. Haven. John E. Hanlon. George Harris. Warren D. Holt. William J. Kaula. Thomas D. McCloskev. Carl E. Merrill. Dennis F. O'Connell. William H. O'Connell. William H. Rinn. Charles E. Souther.

Lillian S. Allen. Georgia P. Austin. Bertha L. Bartlett. Mary Bayfield. Martha E. Burrows. Carrie F. Bent.

Frances M. Broadhead. Edith I. Cann. May G. Canfield. Nora A. Cavanagh. Maude T. Cowdin. Grace P. Caswell. Sarah L. Davis. Cordelia A. Foster. Bertha A. Gould. Mary E. Gorman. Carrie L. Grant. Maria T. Hollander. Hattie N. Hayden Isabella M. Horrell. Anna Kenny. Edith G. Merrill. May F. Marshall. Maggie A. McConnell. Onata I. North. Alice M. Paine. Emma J. Parker. Bertha E. Place. Leila I. Primus. Laura E. Parmenter. Maggie L. Phillips. Millie E. Randall. Nellie L. Russell. Clara B. Snow. Mary A. Sheridan. Flora M Twitchell. Edith M. Walker. Florence E. Whitman. Jenuie Webb.

PRESCOTT SCHOOL.

DISTRICT COMMITTEE.

Hon. John Haskell Butler. S. Newton Cutler. Horace C. White, M. D.

Principal, G. A. SOUTHWORTH.
Assistants, Anna M. Bates, Adelaide Reed.

GRADUATES.

Charles A. Battelle. Walter T. Bisbee. Herbert E. Buffum. John'L. Butler. Edward L. Chase. Henry E. Coan. Arthur S. Davis. Frank R. Dunklee. Charles E. Giles. John E. Goldthwait. G. Ernest Griffin. Henry K. Hadley. John C. Hazelton. Peter J. Hill. Charles E. Hughes. Freeman L. Lowell. John G. McCarthy. Howard A. McIntire. Leslie Moore. Charles L. Morrill. William B. O-good. Arthur N. Park. Henry W. Pratt. T. Franklin Preston. Arthur B. Roberts. Frank S. Sargent. I. Hartwell Staples. George L. Sullivan. Howard A. Weston. William H. White. Frank Winslow.

Grace L. Atkins. Blanche B. Bassett. Belle M. Benner. Maude Burns. Belle Burns. Edith A. Chapman. Lillian E. Chauncey. Emma L. Colby. Agnes W. Crosby. Lillian G. Daley. Zenobia H. Daniels. Beulah E. Davis. Allie B. Ellis. Alice M. Emerson. Alice L. Fisher. Alice M. Grillis. Rosella W. Gould. Maude Jones. Lottie M. Leonard. Alice M. Libby. Kezia J. Meredith. Alice M. Nickerson. Mary E. Nickerson. E. Lula Rich. Marion I. Thompson. Frances R. Tainter. Bertha Underhill. Mary Louise Webb. Bessie M. Wood.

FORSTER SCHOOL.

DISTRICT COMMITTEE.

WILLIAM P. HILL. QUINCY E. DICKERMAN. NORMAN W. BINGHAM.

Principal, JOHN S. HAYES.

10

Assistant, MARY E. NORTHUP.

GRADUATES.

Harry A. Barnes. John P. Burke. Alfred L. Dodd. John D. Flynn. William H. Hilling. Sydney H. Jaques. Charles F. Maguire. George H. Maynard. Lawrence A. Murp hy. Edwin G. Osgood. Horace D. Phelps. Aldis D. Rines. William A. Wilkins. Edgar M. Young.

Honora M. Buttimer. Mattie L. Coan. Helen V. Grey Nettie F. Gray.
Eliza T. Hollis.
Josie F. A. Hopkins.
Carrie T. Lincoln.
Josephine T. Mack.
Edith R. Morris.
Constance C. Pelham.
Alice G Pelham.
Grace Shorey.

MORSE SCHOOL.

DISTRICT COMMITTEE.

MARTIN W. CARR.

PROF. BENJ. G. BROWN.

HORACE P. MAKECHNIE, M. D.

Principal, HENRY C. PARKER-

Assistant, MINA J. WENDELL.

GRADUATES.

William E. Bucknam.
Fred M. Carr.
Edward L. Child.
Edward H. Daniels.
Arthur C. Dyer.
Huntlie Gordon.
John B. Merrifield.
Arthur C. Morang.
Edward F. McGarr.
Guy H. Proctor.
George F. Sibley.
George R. Windslow.

May E. Bridge.
Lulu J. Deacon.
Evelyn F. Folan.
M. Edith Frost.
Nellie S. Fogg.
Hannah M. Higgins.
Edith L. Hunnewell.
Lulu W. Mathers.
Marion M. Perkins.
Gertrude M. Smith.
Addie E. Woodcock.

HIGHLAND SCHOOL.

DISTRICT COMMITTEE.

PROF. BENJ. G. BROWN. HORACE P. MAKECHNIE. MARTIN W. CARR.

Principal, George E. Nichols.

Assistant, LILLA A. HAYWARD.

GRADUATES.

William I. Bevins. Arthur D. Flitner. Fred C. Hoyt. Osgood H. Lacount. Alfred C. Nash. Harry C. Skinner.

Boys, 92; Girls, 101.	Norman W. Stearns. Harry G. Waters. Adelaide L. Burton. Suzella Cummings. Ada E. Dodge. Addie I. Downs. Abbie G. Fish. Emma F. Gerry.	Elizabeth A. Lambert. Gertrude M. Muzzey. Edith M. Sears. Annie L. Shedd. Mabel E. Townsend. Annie E. Waters. Florence L. Wilson. Bessie W. Yeaton.
"" Frescott " 26: boys, 14; girls, 12. "" Morse " 23: boys, 12; girls, 11. "" Highland " 22: boys, 8; girls, 14. One hundred and thirty-three graduates from the grammar schools entered the high school in September: boys, 57; girls, 71. From the L. V. Bell School, 44: boys, 16; girls, 28. "" Prescott " 38: boys, 21; girls, 17. "" Highland " 17: boys, 6; girls, 11. "" Morse " 16: boys, 9; girls, 7. "" Forster " 13: boys, 5; girls, 8. Number promoted to the first class in June 234 "" " second" " 392 "" " fourth" 392 "" " fourth" 396 "" " fifth " 396 "" " sixth " 396 "" " sixth " 396 "" " 532 57 Number of grammar schools 57 Number in attendance in January 57 Number in attendance in December 2,532 Number over fifteen years of age 232		
" " Highland " 17: boys, 6; girls, 11. " " Morse " 16: boys, 9; girls, 7. " " Forster " 13: boys, 5; girls, 8. Number promoted to the first class in June	From the L. V. Bell School, "" Prescott "" Forster "" Morse "" Highland "" One hundred and thirty-three grad entered the high school in Septembe From the L. V. Bell School,	62: boys, 27; girls, 35. 60: boys, 31; girls, 29. 26: boys, 14; girls, 12. 23: boys, 12; girls, 11. 22: boys, 8; girls, 14. uates from the grammar schools r: boys, 57; girls, 71. 44: boys, 16; girls, 28.
Number promoted to the first class in June	" " Highland "	17: boys, 6; girls, 11.
"" "" second "" " . <td< td=""><td>" Forster "</td><td>13: boys, 5; girls, 8.</td></td<>	" Forster "	13: boys, 5; girls, 8.
" " third " "	Number promoted to the first class	in June 234
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$		
" " " " " " " " " " " " " " " " " " "		
Eighty-seven per cent of all pupils in the grammar schools were promoted in June. Number of grammar schools	1001111	
Eighty-seven per cent of all pupils in the grammar schools were promoted in June. Number of grammar schools		
promoted in June. Number of grammar schools	" sixth "	487
Number in attendance in January		s in the grammar schools were
Number registered during the year	Number in attendance in January. Number received from the primary s Number in attendance in December Average number to a school.	

We can speak of our grammar schools in terms of high commendation. They are all in charge of competent, earnest, faithful teachers, who are perfectly conversant with the requirements of their respective grades, and are doing thorough, substantial, and satisfactory work.

EXHIBIT OF THE GRAMMAR SCHOOLS.

•						
Schools.	TEACHERS.	Aver. whole Number.	Average Attendanee.	Per Cent of Attendance.	Tardinesses.	Dismissals.
Forster .	J. S. Hayes	28.1	26.9	95.9	0	1
"	M. E. Stiles	38.3	36.7	95.8	0	11
	A. L. Adams	42.1	39.8	94.3	1	11
"	M. L. Wentworth .	33.9	32.1	94.9	2	6
"	F. M. Guptill	42.1	39.5	93.9	4	8
"	L. F. Clement	46.6	44.2	95.0	4	16
٠.	A. S. Winnek	39.8	38.0	95.3	5	14
	A. A. Batchelor .	51.8	48.8	94.2	7	15
Prescott .	G. A. Southworth .	62.1	60.4	97.2	3	2
	Adelaide Reed	34.5	33.1	95.9	3	6
	A. C. Hudson	33.1	31.9	96.4	2	10
	A. A. Anderson .	41.9	40.1	95.7	0	5
	E. M. Cate	42.0	40.2	95.5	1	14
	A. I. Sears	46.6	44.1	94.7	2	12
	C. T. Brown	50.9	48.2	94.7	2	20
	Clara Taylor	53.1	50.3	94.7	11	21
Edgerly .	F. P. Hudson	39.9	38.8	97.1	2	1
"	H. H. Winslow.	40.7	39.2	96.4	3	14
	H. M. Pierce	43.0	41.1	95.6	4	5
•	F. F. Fuller	48.4	46.2	95.4	7	7
Davis .	L. A. Burns	40.0	38.0	95.0	9	26
L. V. Bell .	H. L. Morse	72.6	69.6	95.8	35 29	56 7
•	L. M. Walton	37.1	36.2	97.4	23	79
	H. E. Adams E. M. Gooding	$\begin{array}{c c} 44.1 \\ 44.7 \end{array}$	$\begin{array}{c} 41.7 \\ 42.6 \end{array}$	$ \begin{array}{c c} 94.6 \\ 95.2 \end{array} $	33	16
•	A M Winht	47.9	46.0	96.0	34	35
	F. A. Wilder	44.2	$\begin{array}{c} 40.0 \\ 42.2 \end{array}$	95.5	15	12
66	E. F. Schuh	41.4	39.7	95.9	8	15
	N. A. Hamblin	44.7	41.8	93.5	48	9
	E. M. Farnsworth .	52.2	49.6	95.0	33	13
"	Elvira Morrill	46.5	44.2	94.9	39	29
Cummings .	L. J. Page	47.4	45.6	95.9	19	16
Prosp't Hill,	Helen Tincker .	44.1	41.8	92.4	10	10
"	S. A. Tuttle	45.7	43.4	94.9	17	7
" "	Ellen Ledyard	45.8	42.4	92.5	34	27
Brastow .	Maria Miller	44.1	42.2	95.7	11	3 2
Bennett .	M. B. Smith	46.2	42.2	91.3	115	79
Jackson .	A. E. McCarty	43.4	41.7	96.1	41	26
Webster .	A. I. Norcross	34.6	32.8	94.7	85	34
Morse .	H. D. Newton	30.9	30.1	97.4	14	27
	Stella Hall	43.0	40.9	95 1	19	55

EXHIBIT OF THE GRAMMAR SCHOOLS. - Concluded.

Schools,		Teachers.			Aver. whole Number.	Average Attendance.	Per Cent of Attendance.	Tardinesses.) Dismissals.
Morse		P. S. Downes			47.9	46.5	97.2	4	7
"		A. E. Sawyer			47.6	45.1	94.6	33	26
66		E. F. Gould			46.0	44.6	96.9	39	36
66		M. A. Haley			49.5	46.8	94.5	37	20
66		L. J. Brooks			34.5	33.3	96.0	12	13
Franklin		H. A. Hills			32.0	30.2	94.4	30	22
66		E. C. Summerh	aves	3.	37.8	35.6	94.1	42	13
Highland		G. E. Nichols			38.9	37.6	96.5	1	28
		A. E. Gage			46.0	44.1	95.7	3	30
"		Jennie Colburn			48.6	45.3	93.2	8	56
"		F. N. Robbins			48.6	44.9	92.4	9	70
"		S. A. Blood			49.7	45.8	92.2	37	88
"		A. R. Cox			48.3	45.6	94.3	4	15
Lincoln		M. A. Paul			30.7	29.2	95.2	$\frac{1}{2}$	33
"	•	E. E. Getchell		•	41.8	39.5	94.5	31	18
Total	•				2,447.4	2,328.4	95.1	1,019	1,284

HIGH SCHOOL.

Whole number of different pupils during the year	•	520
Largest number at one time	•	374
Number admitted during the year		146
" from our grammar schools	•	133
"from other schools		13
" graduated		56
" of graduates who entered college		· 13
" Mass. Agr'l College.		1
" " " U. S. Naval Academy	at	
Annapolis		1
Number of graduates who entered Institute of Technology	•	3
" who have left the school during the year, exclusion	ive	
of graduates		101
Whole number at the present time		363
Average number to a teacher		40
Number over fifteen years of age		324
" in course preparatory to college		96
" pursuing the regular course		195

Number	pursuing the English course		72
66	in the first class on entering the school .		96
6.6	at the present time		57
6.6	in the second class on entering the school		122
4.6	at the present time		69
6.6	in the third class on entering the school .		170
66-	at the present time		100
66	in the fourth class on entering the school		140
6.6	at the present time		137

The high school maintains a firm hold upon public confidence and regard. It is held in high esteem by our citizens, not only for what it accomplishes directly for its members, but also for its elevating influence upon all other schools in the city. It has been said by one occupying a high position as an educator: "Experience has proved that elementary education flourishes most where provision for higher education is most ample. If the elementary schools of Germany are the best in the world, it is owing, in a great measure, to the fact that the higher schools are accessible to all."

We cordially welcome to the school the large number of pupils who enter it from the grammar schools, and regard it a cause for congratulation that the number of graduates, and of those who pursue the course preparatory to college, is annually increasing.

Fifty per cent of the pupils who entered the school in September, 1882, graduated at the close of the school year in June last. Thirteen of the graduates joined their classes in college in September, — four at Harvard, one at Tufts, three at Boston University, one at Smith, one at Wellesley, one at Amherst, one at Brown, one at Williams. Three entered the Institute of Technology, one the Massachusetts Agricultural College, one the United States Naval Academy at Annapolis.

Herbert Spencer says: "To prepare for complete living is the function which education has to discharge; and the only rational mode of judging of any educational course is, to judge in what degree it discharges such function." Most young persons aspire to some useful and remunerative employment as their life-work, and are entitled to such education as will give the best preparation for its successful prosecution. Whenever marked tendencies to special avocations are exhibited, they should be encouraged, for

decided preferences are indications of ability and adaptation, and are guarantees of success.

The three courses of study — English, Regular, and Preparatory to College — pursued in the school present a wide range of subjects, and furnish opportunity to prepare for any contemplated pursuit.

From various causes, the number of persons who obtain a liberal education is comparatively small; but we strongly urge its pursuit and attainment wherever there exist marked ability, decided fondness for study, and favoring circumstances. An eminent educator has said: "It is not for the sake of the individual alone that liberal education is needed. Nothing adds so much to the respectability, the security, and rational enjoyment of a people, as a large infusion of this element."

Formerly, the studies which constituted a liberal education were chiefly the classics, mathematics, and logic; but at the present time, the field of knowledge is so vast, and branches of study are so numerous, the student who aims to obtain a liberal education may well hesitate before he makes his selections. If, however, his calling in life is chosen, that will determine, in a measure, his choice.

In regard to the selection of studies, the venerable Ex-President of Williams College says: "Some option there should be, especially in the latter part of the course, and in outlying branches of study; but I would admit of no such range of option as to make graduation possible with the omission of the most essential parts of a liberal education. Nor would I, by the range of option, so vacate the college degree of any definite meaning as to preclude the possibility of having, as we now have, a body of liberally educated men throughout the country, standing on essentially the same ground."

In regard to the study of the ancient classics, President Dwight, of Yale College, in his inaugural, says: "No man who has learned to read Homer and Demosthenes in any measure as he would read the best English or German authors, has ever regretted it. No man who has ever learned, through the knowledge of the Greek language, to appreciate in any measure the poetry or oratory or philosophy of Greece, has grieved over the hours spent in gaining that knowledge. I do not believe that any such man to the end of time will ever have such grief or regret, or will be otherwise than

thankful that his mind was thus lifted above the one work of his daily life. The disputes about education, which have filled the air. for the last few years, are not yet ended. It will be a strange thing in the world's history if, in this regard, the permanent future does not find its fountain of life in the permanent past."

THIRTY-FOURTH ANNUAL EXHIBITION OF THE SOMERVILLE HIGH SCHOOL, TUESDAY, JUNE 29, 1886, AT 9 A. M.

ORDER OF EXERCISES.

SINGING*— ANTHEM: "Lift up your heads."

Glück.

(With orchestra and organ.)

FOUR-PART SONG: "The Stars are shining in

heaven."

Rheinberger.

1. SALUTATORY IN LATIN.

ARTHUR C. BALDWIN.

2. ESSAY. Possible Inventions.

KATHARINE L. BINGHAM.

3. READING. The First Quarrel.

Tennyson.

ELIZA E. PAIGE.

SINGING .- DUET: Quis est homo, "Stabat Mater."

Rossini.

4. READING. The Last Banquet.

Renaud.

FRED E. DAVIS.

5. DIE ANKUNFT. (Original.)

E. FLORENCE CROSBY. RUTH D. LORING.

E. GERTRUDE WOODBURY. WILLARD C. ALDRICH.

READING. Aunt Anniky.

Harper's.

FRED H. MERRIFIELD.

SINGING.—TRIO: "Lightly row us, gondolier." Campana. (Female voices.) (Instrumentation by S. Henry Hadley.)

Unison Solo: The Postilion. (Male voices.)

7. ESSAY. The Labor Question.

EDWARD H. CHAMBERLAIN.

8. FROM "MACBETH." Original version in Greek.

CALLIE E. CONANT.

SAMUEL A. BURNS.

GEORGE C. COIT.

MARTIN E. GILL.

CHARLES F. MCKENZIE. EDWARD B. MERRIMAN.

RALPH K. SWETT.

9. ORIGINAL CONTRIBUTIONS.

MABEL L. HOWES.

RECESS.

^{*} Singing accompanied by Hadley's Orchestra.

Schumann.

Garrett.

MUSIC.

SINGING. - Gipsy Life. (With orchestra.)

Gipsy Life. (With orchestra.)
GLEE: "My love's like a red, red rose."

(Unaccompanied.)

10. READING. Rest and Recreation.

G. PEARLE TAYLOR.

11. ESSAY. American Women.

GRACE A. WINN.

12. LA RUSE DE LA TANTE. (Original.)

NELLIE M. AUSTIN.

M. Belle Brooks.

L. MABEL DAVIS.

ABBIE H. GILKEY.

MINNIE A. KNIGHT. LOUISE E. PRATT. LIZZIE S. PEIRCE. EDWARD A. BAILEY.

WILLARD C. HILL.

ARTHUR N. RICHARDSON.

13. READING. The Night Ride.

Cable.

FLORENCE V. HOPKINS.

SINGING.— Evening Song.

Abt.

(Young ladies of the graduating class.)

VOCAL MARCH: The Holiday. (With orchestra.) Veazie.

14. POEM.

DAISY C. HOYT.

15. PROPHECIES.

FREDERIC E. WOOD.

16. VALEDICTORY.

JENNIE C. EATON.

17. PRESENTATION OF DIPLOMAS. BY MAYOR MARK F. BURNS.

18. PARTING HYMN.

MEMBERS OF THE GRADUATING CLASS.

Ellen May Austin.
Katharine Louise Bingham.
May Belle Brooks.
Emma Frances Cox.
Emma Florence Crosby.
Mabel Frances Dobinson.
Jennie Cram Eaton.
Hattie Fligsboth Could

Nellie Louise Angier.

Hattie Elizabeth Gould.

Flora Belle Grover.

Florence Vaughan Hopkins.

Mabel Lavonia Howes.

Daisy Carroll Hoyt.

Minnie Amelia Knight. Ruth Dingly Loring.

Eliza Elmira Paige.

Elizabeth Strickland Pierce.

Louise Everett Pratt.

Nettie Belle Prince.

Catherine Dodge Richards.

May Alice Russell.

Nellie Isabel Saben.

Anna Frances Smith.

Florence Naomi Smythe.

Emma Frances Stevens.

Georgianna Pearle Taylor.

Mae Sanders Tower.

Alice Susan Willey.

Ellen Sears Willis.

Grace Augusta Winn.

Emma Gertrude Woodberry.

Willard Cleaves Aldrich.

Edward Albon Bailey.

Thomas John Cadwallader.

Edward Wallace Chamberlain.

Fred Everett Davis.
Charles Everett Fitz.
Willard Converse Hill.
Edward Andrew McGrath.
Fred Hammond Merrifield.

Herbert Ernest Miller. Mark Newell North. Arthur Newell Richardson. Elton Samuel Sibley.

COURSE PREPARATORY TO COLLEGE.

Arthur Colton Baldwin.
Samuel Albert Burns.
George Chandler Coit.
George Henry Dickerman, Jr.
Martin Edward Gill.
Charles Fisk McKenzie.

Edward Butler Merriman. Ralph Keyes Swett. Frederic Edward Wood. Clara Elizabeth Conant. Lizzie Mabel Davis. Abbie Helen Gilkey.

EVENING SCHOOLS.

The evening schools which were in operation at the close of last year were continued until the end of February of this year.

DRAWING SCHOOL.

Number of sessions to	Marc	h 1	•	•	•		•	1	16	
Average whole number	of pu	ipils				•		Ę	92	
Average attendance								7	76	
Number of teachers									3	
Cost of instruction	•	•				•		\$176	00	
Janitor's services.			•	•		•		16 (00	
Gas		•						24 (00	
Cost of materials.	•		•		•			43 8	51	
Total cost to March	1	•	•				. =	\$259 (00	
Evening Grammar Schools.										
EVE	NING	GRAD	IMAR	SUL	OLS.					
Number of schools	NING.	• •	IMAR	• .	·				3	
	•	·	•	• •	·			ç	3	
Number of schools		•	•	• •				8 18	31	
Number of schools Number of sessions Average whole number	· · of p	•	•	• •	·			18	31	
Number of schools Number of sessions Average whole number	· · · of pr	apils	•	• •				13	31 33	
Number of schools Number of sessions Average whole number Average attendance Number of teachers in	· · · of pr	inpils	•	• •				13	31 33 99	
Number of schools Number of sessions Average whole number Average attendance Number of teachers in	of pu	inpils		• •		•		18 9	31 33 99	
Number of schools Number of sessions Average whole number Average attendance Number of teachers in	of pu Janua Febru	ipils ary ary	•	• • •	· · · · · · · · · · · · · · · · · · ·	•		18 9 1	31 33 99 15	
Number of schools Number of sessions Average whole number Average attendance Number of teachers in Cost of instruction	· of pu Janua Febru	inpils ary ary		• • •	· · · · · · · · · · · · · · · · · · ·			\$567 (93 (31 33 99 15 9	

32

57.6

Evening schools for instruction in grammar-school studies were opened in the Prescott and L. V. Bell schoolhouses on Monday, Nov. 8, and a school for instruction in drawing in the high school building, on Tuesday, Nov. 9.

building, on Tuesd	ay, Nov	v. 9.						
	Presco	тчт]	EVENING	z Sor	TOOL		-	
Number of sessions				7 001				26
Whole number reg		•		•	•	•	•	111
Largest number pr							•	70
Smallest "					•		•	20
Average attendanc							•	31
Cost of instruction								\$146 50
" books .								16 00
"gas					•			20 00
Janitor's services.		•	•	tr •				26 00
Total cost .	•	•	•	• 1	•	•	•	\$208 50
Principal. — Joh	n S. Ha	yes.	,				•	
Assistants. — Lo	renzo B	Gı	igson, I	Lilla .	J. Pi	ke.		
	r 17 D		T2	C				
	L. V. Bi	ELL	EVENIN	G SCI	HOOL			
Number of sessions		•		•	•	•	•	26
Whole number regi						•	•	199
Largest number pre					•	•	•	100
					•	•	•	18
Average attendanc							•	42
Cost of instruction	•	•	•	•	•			\$179 00
" " gas	•	•	•	•				20 00
Janitor's services.	•	•	•	•	•	•	•	26 00
Total cost .	•			•		•		\$225 00
Principal. — Her	bert L.	Mo	rse.				-	
Assistants. — Fr				. Mar	v C.	Word	en. I	Ernest A.
Johnson, Mary S. I				,	<i>J</i>		,	
, ,			0					
			ng Sch	100L.				
Number of sessions		•	•	•	•	•	•	13
Whole number of pr	_	•	•	•	•	•	•	69
Largest number pre	sent at	one	time	•	•	•	•	68

Smallest

Average attendance

Cost of instruction		•						\$98 00		
" materials								28 25		
" gas .				•				10 00		
Janitor's services			•	•				13 00		
Total cost .						•		\$149 25		
Principal. — Frank H. Collins. Assistant. — Miss Bragdon.										
Entire cost of evening	ng sch	ools	for the	e year	•	•	. \$	1,567 25		

TEXT-BOOKS.

At the beginning of the school year, Shaw's History of English and American Literature was introduced into the high school. A copy of Lectures on School Hygiene, published by Ginn & Co., was placed upon the desk of each teacher in the grammar schools. Miss Stickney's Classics for children were introduced into the primary schools. Greenleaf's Brief Course in Arithmetic was substituted for Greenleaf's Complete Arithmetic in the fourth class.

All text-books now in use in the schools belong to the city.

٠.	books p	66	66	1884 1885 1886				\$7,320 0 3,879 0 2,322 0	00
Tot	tal cost	•						\$13,021 0	00
66	high sch gramma evening	r and p	rima	ry sch	ools	•		\$2,916 0 9,943 0 162 0	00
	stimated nat a set						_	the exped	o -

Annual cost p	er sch	olar	in the	high	schoo	ol.	•	•	\$2	80
66	66		٤ د	gram	mar	and	prim	ary		
schools		•		•						72

The cost annually for writing books and drawing books is about \$850, or 30 cents for each pupil.

GENERAL REGULATIONS AND COURSE OF STUDY.

The rules of the school committee, the regulations of the public schools, and the course of studies for the several grades of the schools, have been revised during the year, and five hundred copies have been printed for the use of the schools and for general distribution.

In this revision, the requirements of the grammar schools have been curtailed, in order that greater thoroughness in essentials may be secured, and that, ordinarily, the work demanded may be performed by industrious pupils in school hours.

In arithmetic, the requirements have been reduced in all the classes whose work seemed excessive. This reduction has been accomplished in the fourth class by the substitution of the Brief Course for the Complete Arithmetic; in the third class by the omission of Denominate Fractions; in the second class by omitting Problems in Interest; in the first class by omitting or making optional True Discount, Foreign Exchange, Compound Proportion, Cube Root, Similar Surfaces, and Similar Solids.

In geography the work has been diminished by the omission of numerous unimportant details and of whatever is of little practical value. All work required in this branch of study is definitely specified. In history, time is economized by passing lightly over those subjects and events which are of little interest or importance, and by limiting and specifying the dates to be memorized.

The following table shows the time assigned to each study in the grammar and primary schools, per week:—

CLASS.	1	2	3	4	5	6	7	8	9
Reading,	2 20	200	210	240	300	300	480	525	745
Spelling, Language,	60 240	$\begin{array}{c} 60 \\ 250 \end{array}$	60 260	260	80 225	120 215	125	140 140	120
Arithmetic, Geography (or History),	$\begin{array}{c c} 360 \\ 225 \end{array}$	$\frac{350}{225}$	$\frac{325}{200}$	325 200	300	300 150	280	240	180
Writing, Drawing,	120 70	120 70	120 70	120 70	120 70	120 70	120 70	110 70	100 70
Music, Opening exercises,	60 25	60 25	60 25	$\frac{60}{25}$	60 25	60 25	60 25	$\begin{array}{c} 60 \\ 25 \end{array}$	60 25
Recesses, Physical exercises, 1	75 25	75 25	75 25	75 25	$\begin{array}{c} 25 \\ 75 \\ 25 \end{array}$	75 25	100	100	100
Physiology and Hyg ene,	20	20	20	20	20	20	20	20	20
Morals and Manners,		20	20	20	20	20	20	20	30
Total in minutes,	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500

LIBRARY BOOKS.

At the regular meeting of the Board, in January last, Messrs. White, Butler, Shepard, Hill, Carr, Brown, and Mayor Burns were appointed a committee to select and present to the Board, for consideration and approval, a list of books, which, in their judgment, are suitable for perusal by pupils of the public schools.

In accordance with instructions, the committee, with great care and much labor, have made selections and prepared a catalogue which they will soon present to the Board. This catalogue, when completed, will be printed for the use of the schools.

SCHOOL MANAGEMENT.

The general duties of school committees are definitely specified in the Public Statutes, and great discretionary power is authorized in all matters concerning which no specific directions are given.

It is the province of the committee to select and appoint teachers, to limit school time, to grade the schools, to arrange courses of study, to define the qualifications requisite for promotions, and to prescribe methods of examinations.

SELECTION AND APPOINTMENT OF TEACHERS. — The character of the schools depends so largely upon their teachers, the duty of selecting them stands first in importance. It has been truthfully said: "The vital connection between the teacher and his work . renders the one, in a certain respect, the measure of the other. Given the qualifications of the master, his conscientiousness, zeal, knowledge, and experience, we can, with tolerable accuracy, predict what his school will be; and, on the other hand, given the school, we can resolve its character into that of the master." Plato says: "The teacher should be a model man, for he will mould his disciples into beings like to himself." The distinguished Whitelaw Reid says: "There is no place in the public service where inefficient work is more to be deplored than in the education of children. If laws are badly made, you can repeal them; if courts do not rule justly, you can remove the judges; but if the schools are ill-managed, if the children are led astray, or even not led aright, you are poisoning the life-blood of the community."

During the last five years ninety teachers have been elected to fill vacancies caused by resignations and for new schools,—an

average of eighteen each year, or sixteen per cent of all teachers employed by the city.

Since the demand for teachers who possess all the qualifications requisite to insure success far exceeds the supply, the labor of procuring a sufficient number of such to meet our necessities is by no means insignificant.

School Time. — The time assigned to the schools, by the regulations, is five hours a day, five days a week, and forty weeks a year, including holidays and stormy days, on which the schools are not in session, amounting usually to two weeks. Since the average attendance of pupils in the high school and the several grammar schools is about ninety-six per cent, a further reduction of four per cent of school time should be made on this account. The remaining 36.48 weeks — the actual school time — and the estimated average ability of pupils at different stages of advancement, form a basis for the arrangement of courses of study, and in estimating the annual school requirements.

Grades of Schools.—Our schools comprise three grades and thirteen classes. The primary schools contain three classes, the grammar schools six, and the high school four. In arranging courses of study for the several grades, great care is required, in order that the work demanded of each class shall be adapted to the average ability of pupils composing the class, and that the various studies pursued may be so apportioned that the demands upon pupils who are regular in attendance and faithful in the performance of school duties shall not exceed their ability at any stage of advancement.

School Studies. — In arranging their programme of studies, committees are required to select, from the vast resources of learning, those subjects a knowledge of which will be most helpful in the performance of the ordinary duties of life, and most essential as a preparation for the pursuit of higher courses of study. They must also limit the extent to which the subjects of their choice shall be pursued. Since the development of intellectual power and the formation of good mental habits are more important than the gaining of knowledge, branches of study must be selected not only with a view to their utility in furnishing the mind with useful information, but also to their value in demanding for their acquisition that vigorous exercise of the mental faculties by which intellectual power is secured.

STANDARD OF SCHOLARSHIP FOR PROMOTIONS. — In establishing this standard, care must be exercised lest it be placed so low that pupils will be promoted prematurely, and to their injury, or so high that those who are capable of comprehending and performing the work demanded in a higher class, will fail of promotion.

Public schools must, of necessity, be graded schools. Committees usually make the number of classes in each grade correspond to the number of years required to complete the work prescribed for the grade. Even with this classification, each of the thirteen classes will be composed of pupils who differ widely in natural ability, ambition, perseverance, physical endurance, habits of punctuality, industry, and application, and consequently in scholarship. Not unfrequently the estimated difference in scholarship of pupils at the extremes of a class is twenty per cent at the beginning of the year, and increases as the year advances, and often amounts to thirty per cent at its close. With our system of examinations, the average scholarship in the several classes of the grammar schools does not vary materially from eighty per cent.

In all arrangements for the management of the schools, the dominant motive is the highest good of every scholar. In making promotions, it is our intention and earnest desire that each pupil shall occupy that position in school which will secure to him the highest possible advantage. Promotions are not denied, when, in the judgment of those who make them, they are warranted by scholarship and ability; neither are they granted prematurely and to the permanent injury of pupils.

The observations of years indicate that, as a rule, pupils who are promoted by a standard of scholarship lower than that prescribed by the regulations of the School Board, are incapable of performing successfully and to their profit the work demanded of them. Since, however, the prescribed standard of seventy per cent in the grammar schools, and sixty-five per cent in the high school, is an arbitrary standard established on variable data, it is regarded unwise to adhere to it rigidly under all circumstances. Hence the regulations provide that—

"Pupils in the high school and the several grammar schools, whose rank in scholarship falls below the required standard, shall be considered separately, and each case decided upon its merits by the subcommittee, the principal, and the superintendent. The age, the general character and capacity of such pupils, their daily work through the year, and habits

of industry and application, as shown by the teacher's records, shall be duly considered in deciding upon their promotion, graduation, or retention."

As a result of our practice, about ninety per cent of all pupils in the high school and the several grammar schools are promoted each year.

Examinations. — Examinations or test exercises, oral and written, hold an important and prominent place in all well-conducted schools, and claim more than a passing notice.

If examinations are used as an end, and teaching and study are made subordinate to them, if they are taken immediately after they have been specially prepared for by a process of cramming, or if they are so used as to induce nervousness and undue anxiety in the minds of pupils, they are diverted from their legitimate purpose, and become harmful instead of helpful. All such use should be discountenanced and discarded. When, however, they are wisely employed, they are among the most healthy and efficient agencies in promoting and securing thorough and valuable school work.

The simplest form of examination is the oral recitation that usually follows closely upon the preparation of a lesson. This form of examination is a test of pupils' fidelity in the preparation of the lesson assigned, and of their success in obtaining from the printed page the knowledge it is designed to communicate; it suggests, also, to the teacher such illustrations and subsidiary information as may be needed to deepen and render more vivid and permanent the impressions which the pupils have received through their unaided efforts.

The expectation of the recitation, in which the knowledge acquired must be communicated to teacher and associates, is a healthy incentive to close application, and a careful preparation of the lesson assigned. The constant practice of reciting what has been learned promotes the power of expression, increases the command of language, and gives permanency to what has been acquired.

It is highly essential to a pupil's success in pursuing a course of study, that the work required of him, at all times, should be within the scope of his comprehension, and such as his knowledge and previous training have prepared him to perform. Written examinations are valuable and indispensable aids in determining scholarship, and in forming a just and accurate judgment concern-

ing a pupil's attainments and his ability to pursue with profit studies of a higher grade. The following are the regulations pertaining to examinations:—

"In each of the several classes in the high school written test examinations shall be held bi-monthly, under the direction of the principal. Pupils whose rank in scholarship, as indicated by the average of the examinations, is sixty-five per cent, will be entitled to promotion at the end of the school year.

"In each of the several classes of the grammar schools, written test examinations shall be held bi-monthly. Pupils whose rank in scholar-ship for the year, as indicated by the average of the several examinations, is seventy per cent, will be entitled to promotion.

"The principals shall examine bi-monthly the schools in their respective buildings, in reading, writing, and drawing.

"The question for one of the bi-monthly examinations of grammar schools shall be prepared by the principals; for the final examinations by the superintendent; and for the remaining examinations by the teachers, under the direction of the principals.

"The questions for the final examinations of the first class shall be submitted to the high school committee and the principal of the high school for their approval.

"In addition to these examinations, each teacher shall keep a careful record of results of examinations and of those qualities, in each pupil, which make the diligent, faithful scholar, and which no examination can correctly disclose. These records will be used at the close of the year in deciding upon all doubtful cases of promotion."

Well-conducted written examinations, at suitable intervals, furnish to teachers and pupils reliable information upon various matters which it highly concerns them to know, and which could be obtained by no other means. They reveal to pupils their deficiencies and acquaint them with the accuracy and permanency of their knowledge and their ability to express, in writing, what they have labored to acquire. They furnish teachers with the desired information concerning the knowledge or ignorance of their pupils of the subjects pursued, and reveal to them also the efficiency and defects of their own instruction.

The questions proposed by teachers in their examinations exhibit the range of their teaching, and furnish opportunity to principals to make such criticism and suggestions as may be deemed necessary, in order to secure desirable uniformity of instruction in the schools under their special supervision. The examinations by the principals and the superintendent are less

specific in character than those by the teachers, and are intended as a general review of the leading subjects considered during the year. They are a more severe test of the permanency of the pupils' acquisitions than those which follow more immediately upon the study of the subjects under review, and are especially valuable on account of their influence upon the memory.

It is wise to inquire how examinations which enter so largely into the exercises of the schools may best aid in improving the memory and in giving greater permanence to the knowledge acquired.

The memory holds high rank among the faculties of the mind, and its proper cultivation claims our constant care. "The retentive faculty," says Bain, "is the faculty that most of all concerns us in education." By judicious exercise it becomes a treasury ever increasing in richness as the years move on. Cultivate it aright, and whatever is committed to it will become a permanent possession ever ready for use. Carelessly neglect it, and impressions made upon it will be as evanescent as inscriptions upon shifting sands; and mental poverty will inevitably ensue.

It is cause of regret, and not a little surprise, that so large a proportion of the knowledge acquired by our pupils is so soon forgotten, and that impressions made upon them by instruction communicated are not more permanent.

This lamentable and irreparable loss of time and manifest inability to retain permanently what has been acquired should excite earnest inquiry into the cause, and lead to the diligent and vigorous application of the remedy.

It is a very generally admitted statement, that "whatever is soon forgotten was never thoroughly learned." Carlyle says, "Be careful not to stamp a thing as known only when it is so stamped on your mind that you may survey it on all sides with intelligence." Impressions that endure are deeply engraved. Nothing truly valuable is gained without earnest, persistent effort, Knowledge that has durability was acquired by close application, patient, continuous thinking. The permanency of knowledge is commensurate with the labor bestowed upon its attainment. What is communicated to us and of which we are merely passive recipients, is soon forgotten.

The frequent recollection and repetition of what has been learned, assists greatly the permanent remembrance of it. Hence

the importance of a system of examinations, oral and written, which compels frequent reviews of what we would have indelibly stamped upon the mind.

In order, however, that the desired results from examinations may be obtained, they must never be regarded as an end. What is learned for the sake of an examination merely, will soon be forgotten when that event is passed. Unexpected examinations, and occasional examinations of topics at periods remote from the time of their consideration, are valuable as correctives of hasty and superficial preparation.

SCHOOL DISCIPLINE.

We respectfully invite attention to the following extracts from a paper by Dr. W. T. Harris:—

"The pillars on which school education rests are behavior and scholarship. Deportment or behavior comes first, as the sine qua non. The first requisite of the school is order; each pupil must be taught to conform his behavior to the general standard, and repress all that interferes with the function of the school. . . . Lax discipline in a school saps the moral character of the pupil. It allows him to work merely as he pleases, and he never can re-enforce his feeble will by regularity, punctuality, and systematic industry. . . . Too strict discipline, on the other hand, undermines moral character by emphasizing too much the mechanical duties, and especially the phase of obedience to authority, and leaves the pupil in a state of perennial minority. He does not assimilate the law of duty and make it his own. The law is not written on his heart, but is written on lips only. The tyrant teacher produces hypocrisy and deceit in his pupils. All manner of fraud germinates in attempts to cover up shortcomings from the eye of the teacher. . . . There is no independence and strength of character developed. The best help one can give his fellows is that which enables them to help themselves. The best school is that which makes the pupils able to teach themselves. The best instruction in morality makes the pupil a law unto himself. Hence strictness, which is indispensable, must be tempered by such devices as cause the pupil to love to obey the law for the law's sake."

It is our pleasure to report that, pro rata, the number of cases of corporal punishment reported this year is smaller than on any previous year. Thirteen teachers report no case of punishment during the year; eleven, one case each; and eleven, two cases each.

MORAL TRAINING.

We cannot emphasize too strongly the importance of the moral element in education. "The whole school life should be moral in tone and tendency." An eminent statesman has said, "Whatever you desire to have in your nation, you must introduce through your schools." Only a few years, and the children and youth comprising the public schools and higher institutions of learning in our land, will have in charge all the vast interests of society. Their fitness for the responsibilities awaiting them will depend in large measure upon the quality of the instruction they are now receiving, and the influences by which their characters are being moulded.

It is a cheering indication of the advance of popular sentiment in the right direction, that schools and teachers are being estimated and prized more and more by their moral character and influence. We seek for well-educated teachers, teachers who understand the best methods of instruction, and are skilful in applying them, but the thought that overshadows all other considerations regarding them, pertains to their moral character and influence.

It has been wisely said: "Mere teaching, without formative influences on character, is simply a trade. Character is a man's deepest love, and will determine his ultimate destiny. Hence the highest form of benevolence is in seeking to improve it. He who appreciates the value of character clearly, and devotes himself with energy and self-denial to its improvement in himself and others, is the highest style of a man; and the institution that does most for character will do most for the individual and the country."

J. H. DAVIS,
Superintendent of Public Schools.

Somerville, Dec. 27, 1886.



REPORT

OF THE

SOMERVILLE MYSTIC WATER BOARD.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 23, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, Clerk.

Concurred in.

IN COMMON COUNCIL, Feb. 24, 1887.

DOUGLAS FRAZAR, Clerk.

CITY OF SOMERVILLE.

To his Honor the Mayor and the City Council:

GENTLEMEN, — It is with more than ordinary satisfaction that your Board reviews the work of the past year, and contemplates the relation of this department to the city government in the future.

No previous year has closed of late without regret on the part of the Board that no change had been effected in our contract relations with the Boston Water Board. Hence our pleasure in referring to the fact, announced in the early summer, that a new contract has been made, whereby \$18,000 a year is saved to the city at present, which amount will increase in our favor with the city's growth. In contemplating this new contract, we not only share the gratification of the general public, but, having labored long in the face of many obstacles, the success gained means more to us than it can mean to others. It is but justice to say that this contract, in which Chelsea and Everett share, was secured largely through the instrumentality of our Board; and to Walter S. Barnes, our representative on the special committee, are we indebted more than to any other one, because through his devotion, untiring energy, and good judgment the desired result was attained.

We have been especially fortunate, also, in the matter of damage to persons and property, and have no unsettled claims at this time. We wish to express our appreciation of the prompt service of the police and private citizens in notifying us of bursts in the mains, thereby in some cases preventing great damage.

We have been enabled, out of the appropriation of the past year, to relay some of the weakest mains, and our chief regret, as we review the work of the department, is that the appropriation did not enable us to relay more mains. If double the number of feet could have been relaid during the past year, indeed during the past four years, the maintenance account would have been greatly lessened, and the condition of the service much improved. Con-

sidering the time, however, during which these mains have been in use, we have reason to congratulate ourselves that they have endured so long; and they are now in better condition than the most favorable estimate would have allowed us to expect, when we remember that they were laid by contract, more than twenty years ago, and warranted for only five years. It is not strange, therefore, that in some instances the streets, notably Beacon and Poplar Streets, are positively dangerous. The most important work to be done during 1887 is the relaying of the main in Beacon Street, where the breaks in the street are frequent and expensive, in consequence of the pipe being under the horse-car track. Although the relaying will be attended with some difficulty and more than usual expense, there should be no delay in doing the work. Both economy and safety demand that these mains be relaid as soon as the frost is out of the ground.

There have been 2,273 feet of mains replaced by new pipe the past year, and 6,698 feet of new mains laid, to accommodate new dwellings; 292 services have been put in, mostly in new houses. The whole number of services is now 4,626. There are now in the city $50\frac{1}{4}$ miles of mains and $29\frac{1}{2}$ miles of service pipe. During the past year nearly all of the old wooden service gateboxes, that used to stand up from the sidewalk at a convenient height to trip the passers-by, causing much annoyance and some serious accidents, have been replaced by iron boxes of an approved pattern.

We have few recommendations for 1887, other than those already referred to. The ten-inch main which now leads from the reservoir to the corner of Grove Street and Highland Avenue, near the Brastow hose house, should be extended on Highland Avenue to Central Street. This will complete the original plan of the works, and add materially to the pressure on Highland Avenue where it is needed, and also will improve the circulation and consequently the quality of the water. This will certainly have to be done soon, and until then all the devices of running small pipes to houses along the line cause a waste of money, and are unsatisfactory to all concerned. This work would cost probably \$5,000, and would not directly increase the revenue; but we owe it to all the water-takers in that part of the city to make the improvement.

Another matter that has had the attention of the Board concerns

those citizens near the Cambridge line who are supplied by the Cambridge department. The Cambridge pipes are old, in bad condition, and when they are relaid it should be done by the Somerville department. The service is unsatisfactory, and watertakers are petitioning us for relief. There are probably 7,000 feet of this pipe. It is in a thickly settled portion of the city, and we should reap a good revenue at once. The most annoying circumstance connected with the work of the department is the fact that the large works of J. P. Squire & Co. take water from Cambridge, most of which is used in buildings located in Somerville, Cambridge making a special rate to them of about one half that paid by other consumers. The Boston Board is not at liberty to compete in this way, and the policy of the State in relation to the water supply would not for a moment approve of Cambridge's making a special bid which takes from us several thousand dollars each year. The introduction of water is principally for the benefit of the homes, and they should have it at the lowest possible cost. The law of wholesale prices for large quantities does not hold good in public works of this kind.

With this new contract already in working order there remains but one desirable thing of any magnitude to be obtained, namely, a never-failing supply of pure water. The Board has taken an active interest in preliminary steps to obtain the pure water of the Shawsheen River, to be used as a substitute for the Mystic, or as an additional supply.

As this matter is before the Legislature, we trust that our senator and representatives will consider the interest which Somerville has in this measure, and that all citizens acquaint themselves with the facts upon which this legislation is asked.

For a detailed statement of the work and condition of the department, we refer you to the appended report of the Superintendent, Mr. Nathaniel Dennett, to whose industry we are largely indebted for the efficiency of the service.

J. O. HAYDEN.
WALTER S. BARNES.
CHAS. H. BROWN.
JOHN M. WOODS.

SUPERINTENDENT'S REPORT.

To the Somerville Mystic Water Board:

Gentlemen, — The annual report of the Superintendent of the Somerville Mystic Works is respectfully submitted, giving a detailed account of all work performed during the year 1886. The schedules hereto annexed show the sizes and locations of the extensions of main pipe, and of the pipe relaid; and also the stop-gates, hydrants, and stand-pipes set. The inventory of tools and stock on hand is included.

DISTRIBUTION MAINS.

These were extended 6,693 feet or $1\frac{1}{4}$ miles, 98 feet, of which 132 feet was hydrant pipe; making the total length in the city $50\frac{1}{4}$ miles, 98 feet; 2,273 feet of cast-iron pipe have been relaid in place of cement-lined pipe; 798 feet of this pipe was relaid for the Trustees of the McLean Asylum, and the expense was borne by them. For the better protection of the Middlesex Bleachery and Dye Works, 215 feet of cast-iron pipe was laid in their premises, and a 6-inch hydrant connected with the same, the whole at the expense of the proprietors; 141 feet of cement-lined pipe was relaid in place of old, for repairs on the same.

There have been 50 breaks and leaks, 23 on 4-inch cement-lined pipe, 18 on 6-inch, and 9 on 8-inch.

The streets referred to in my last report continue to give about the same trouble. Poplar Street especially has given out, and only a portion of the pipe is now in use.

STOP-GATES.

Twenty-one new stop-gates have been set, 8 on old mains and on 13 extensions, viz.:—
On old mains,—

- 1 six-inch gate, corner of Broadway and School Street.
- 1 four-inch gate, corner Evergreen Avenue and School Street.
- 1 eight-inch gate, Broadway, near drinking fountain.

- 1 four-inch gate, Wesley Park, corner Summer Street.
- 1 " Winter Street, corner Holland.
- 1 six-inch gate, Franklin Street, corner of Flint.
- 1 " corner Preston and School Streets.
- 1 " Summer and School Streets.

On extensions, -

- 1 four-inch gate, Summer Street, corner of School.
- 1 six-inch gate, Runey Street, corner Eglantine.
- 1 " Cartmouth Street, Evergreen Avenue.
- 1 four-inch gate, Buckingham Street, corner Beacon.
- 1 " Magoun Street, corner Medford.
- 1 six-inch gate, Beacon Street, corner Kent.
- 1 " Warwick Street, corner Cedar.
- 1 four-inch gate, Essex Street, corner Medford.
- 1 eight-inch gate, Walnut Street, near Bonair.
- 1 four-inch gate, Sanborn Street, corner Walnut.
- 1 " Parker Street, corner Washington.
- 1 six-inch gate, Austin Street, corner Benedict.
- 1 " Somerville Avenue, near Bleachery Court.

On account of relaying the pipe, the following changes in size of the stop-gates have been made:—

Gate corner Walnut Street and Broadway from six inches to eight inches.

Gate corner Bonair and Walnut Streets, from four inches to six inches.

Gate corner Mills and Walnut Streets, from four inches to six inches.

Gate corner Maple and Poplar Streets, from four inches to six inches.

Gate corner Medford and Poplar Streets, from four inches to six inches.

Twenty-three gate-boxes have been raised to conform to the present grade; 4 have been taken out, repaired and reset; 26 wooden gate-boxes have been set in place of old decayed ones; 81 gates found leaking have been repacked, and all have had the usual care, and are in good order. The total number of gates in the city is 482.

HYDRANTS.

There are 343 fire hydrants; during the year 21 hydrants were set,—14 on old mains and 7 on extensions,—located as follows:—On old mains,—

Dartmouth Street, near Broadway.

Dover Street, opposite car stables.

Austin Street, near Mystic Avenue.

Austin Street, opposite Benedict.

Chestnut Street, 400 feet from Joy.

Everett Street, opposite Emerson.

Washington Street, corner Tufts.

Broadway, between Cutter and Franklin Streets.

Walnut Street, opposite Pleasant Avenue.

Cnester Street, near Orchard.

Park Avenue, near Chandler Street.

Washington Street, corner Myrtle.

Washington Street, corner Franklin.

Vine Street, near Beacon.

On extensions, -

Summer Street, near School.
Summer Street, opposite Preston.
Medford Street, near Thurston.
Dartmouth Street, corner Evergreen Avenue.
Richdale Avenue, corner Thurston Street.
Medford Street, opposite School.
Dartmouth Street, near Medford.

Eight of the old disk hydrants, which have given considerable trouble in years past, have been taken out and altered to the Holyoke pattern. All the hydrants have had the usual attention paid them, having been carefully looked over once a month; 140 have been repacked, and other needed repairs have been made. They are now in good working order, none having failed at fires.

The hydrant on Washington Street, near the Lowell Railroad bridge, having been struck several times by teams and its position being dangerous to the same, it has been removed; also, the one near the corner of Washington and Franklin Streets has been removed, and one set in its place some twenty feet up Franklin Street.

One new post hydrant has been set in place of a flush hydrant in the Asylum grounds.

SERVICE PIPES.

The whole number laid in 1886 was 292, at an average cost of \$18.84; the length of pipe used was $11,696\frac{1}{2}$ feet. The whole number of services is now 4,626; total length of pipe, $29\frac{1}{2}$ miles, $494\frac{1}{2}$ feet.

Thirty-six old services have been replaced by new ones; 23 at the expense of the owners, as the old service pipes had become too small for their increased requirements; the remainder at the expense of the service department, as the old pipes furnished by the city were rusty and unfit for use.

Twenty-five leaks have occurred, and were caused as follows: 14 by defective soldering, 5 by pick-holes, and 6 by settling of the earth.

One hundred and thirty-nine services were stopped; 38 by eels, 68 by rust, and 33 by sediment or other causes.

Thirty-nine were shut off for repairs on account of leaks inside the premises, and 35 for non-payment of the water rates.

One hundred and eighty-four iron service boxes have been substituted for decayed wooden ones. Quite a number of wooden boxes should be removed as soon as convenient.

STAND-PIPES.

Five new stand-pipes have been set:

One on Concord Avenue, near Adrian Street.

One on Mystic Avenue, corner Union Street.

One on Highland Avenue, corner Central Street.

One on Pearl Street, near Marshall.

One on Summer Street, corner Cedar

All the stand-pipes received the usual attention, were repaired when necessary, and are in good order.

DRINKING FOUNTAINS.

All have received the customary care, requiring but few repairs. A large iron fountain at the easterly end of Union Square, which was set to take the place of a similar one, has proved unsuitable for the place. It has been broken by heavy teams a number of times and is now beyond repair. I recommend that your honora-

ble Board confer with the committee on highways, in regard to replacing it with a granite fountain like the one in Davis Square, as that is the only one in the city adapted to the requirements of Union Square.

BUILDINGS.

The buildings used by the department—the exterior repairs on the old police building having been completed—now conform to the appearance of the other public buildings.

MISCELLANEOUS WORK.

Fifty-three trenches were repaired and 59 places were paved. In the department shops, 12,300 feet of service pipe have been lined with cement; gate-boxes were constructed and gates repaired; hydrants altered and repaired; and a large amount of incidental work performed.

STOCK AVAILABLE FOR FUTURE USE, JAN. 1, 1887.

Cast-iron pipe .	•	•	•	•	•		\$2,740 0	0
Cement-lined pipe.							295 3	80
Sheet-iron shells .							24 6	4
Service pipe, lined and	unli	ned	•		•		799 4	0
Service materials .		•			•	•	600 8	80
Materials for water wor	ks	•	•				592 6	5

MACHINERY, TOOLS, AND FURNITURE.

Stable department	•		\$1,190 50
Tools and machinery for water works			810 92
Tools and machinery for service department		•	523 00
Office furniture			280 00

Arnold Court	Tableyon	I	EXTEN	SIONS	, ·	Ѕто	P-GA7	res.	ıts.
Austin St., near Mystic Ave Austin St., corner Benedict Austin St., opposite Benedict Beacon Street Benedict Street Bond Street Broadway, corner School Street " near drinking fountain, " b'n Cutter & Frank'n sts. Buckingham Street Changler Street Street, near Orchard Chestnut Street, 400 ft. from Joy Dartmouth Street " near Medford Dover Street, opposite car stables, Essex Street Everett Street, opposite Emerson, Evergreen Avenue Franklin Street Street, opposite Emerson, Evergreen Avenue Franklin Street	Location.	$1\frac{1}{2}$ in.	2 in.	4 in.	6 in.	4 in.	6 in.	8 in.	Hydrants.
	Austin St., corner Benedict . Austin St., opposite Benedict . Beacon Street Benedict Street Broadway, corner School Street " near drinking fountain, " b'n Cutter & Frank'n sts. Buckingham Street		426	197 40 159 24 214 $310\frac{1}{2}$	128 48 190 294 577 248 13 84 213 378 219 284 169 695	1 1 1 1	1 1 1 1 1 1		

CAST-IRON PIPE RELAID IN 1886, IN FEET.

Location.									6 in.	8 in.
Adams Street .	•								36	
Bonair Street.	•								15	
Franklin Street										36
Maple Street .									715	
Mills Street .									25	
Tufts Street .										36
Walnut Street		•	•	*	•		•	.		612
McLean Asylum	•			•	•	•			798	

CEMENT-LINED PIPE RELAID ON ACCOUNT OF BURSTS.

					4 in.	6 in.	8 in.
						16	
•							8
					17		
					7		
	•				7		
				-	7		
					7		
						6	
						18	
						6	
		•				21	
					14		
						7	
	•					17	16

Respectfully submitted,

NATHANIEL DENNETT,

Superintendent.

WATER CONTRACT.

WATER CONTRACT.

This agreement, made this first day of July, 1886, between the city of Boston, in the county of Suffolk, by the Boston Water Board, first party, thereto authorized by an order approved by its mayor, March 24, 1886, and the city of Somerville, in the county of Middlesex, by its Water Board, second party, thereto authorized by an order approved by its mayor, May 18, 1886, witnesseth:—

- 1. That the said parties cancel any and all agreements heretofore made between the city of Boston or the city of Charlestown and the second party relating to rates or rents for the use of water supplied by the city of Charlestown or the city of Boston, within the territory of the second party.
- 2. That the said first party shall furnish to the second party and its inhabitants water from the Mystic water supply, or any increase of or substitute for the same hereafter authorized by the Legislature, and that the supply of the same shall not be discontinued or restricted, unless the quantity of water from the said supply, or any substitute therefor, fails to exceed the requirements of the inhabitants of the Charlestown district of said city within its present territorial limits, and of the inhabitants of the city of Chelsea.
- 3. That the said second party shall, at its own cost and expense, lay and maintain all the pipes, hydrants, and stop-gates necessary for conveying the water from the pipes laid by the first party, and distributing the water within the limits of the territory of the second party.
- 4. That for all the water furnished by the said first party to, and used by the second party, or by any person within the territory of the second party, the said first party shall, at its own expense, collect water rents at the same rates and prices, and under the same rules and regulations as are now, or may hereafter be, established by the said first party, for the use of water in the city of Boston; provided that the price to be collected for fire hydrants shall be twenty-eight dollars per year for each three

hundred and fifty inhabitants, as shown by the semi-decennial census next preceding; in computing the amount, the fraction shall not be taken into account, unless it exceeds one half, when the full price shall be charged; said hydrants to be as many as said second party may determine, but not to be used for any purpose whatever except for fire purposes; that the water for public fountains shall be supplied at cost, and that the second party shall not be held responsible in any case for the payment of said water rates except for water used for hydrants, public fountains, and other city purposes.

- 5. That the said first party shall pay to the said second party, in the months of January, April, July, and October of each year, a rebate of fifty per cent of the rates collected for the use of water within the territory of the second party.
- 6. That the said second party may raise the water rates within its territory above those charged by the said city of Boston; and, in case the water rates shall be so raised, the first party may retain to its own use five per cent of the excess of said rates over the rates established by said city of Boston, and pay over the balance of said excess to the second party, as hereinbefore provided.
- 7. That the said first party may, at its own expense, take such measures and use such machines and apparatus for the prevention of waste within the territory of the second party as shall be taken and used in the city of Boston.
- 8. That the said second party shall pass and enact the like rules and regulations as to the use of water within its territory as are now or may hereafter be in force in the city of Boston, with like penalties for their violation; provided such rules and regulations shall not conflict with the laws of the Commonwealth.
- 9. That the said second party shall furnish a map of its territory to the first party, and from time to time make prompt additions thereto, so as to show all streets in which pipes are laid and the location of all pipes, hydrants, and stop-gates.
- 10. That if any agreement, deemed by the second party more favorable, shall, during the continuance of this agreement, be made with any other city or town, the said second party shall be entitled to the same terms, but the charge herein fixed for hydrants shall remain until the expiration of the contract.
- 11. That this agreement shall continue in force as long as the Mystic water supply, or any increase of or substitute for said

supply hereafter authorized by the Legislature, shall be used by the first party, or until this agreement shall be cancelled by said first party, and other terms than those herein agreed upon shall be fixed, as hereinafter provided.

12. That if this agreement shall be cancelled, and the two parties be unable to agree upon terms for a continuance of a supply of water, the terms shall, after a full consideration of all the circumstances of the case, be equitably fixed by a commission of three disinterested persons, to be agreed upon by the parties; or, if they cannot be agreed upon by the parties, then to be appointed by the Supreme Judicial Court, and their award, when accepted by the said court, shall be conclusive for such time as said court shall order.

HORACE T. ROCKWELL, Boston WILLIAM B. SMART, THOMAS F. DOHERTY, Board.

JOSEPH O. HAYDEN,
WALTER S. BARNES,
CHARLES H. BROWN,
JOHN M. WOODS,
MILO CRANE,

Somerville
Mystic
Water
Board.

Approved, May 19, 1886.

HUGH O'BRIEN.

REPORT

OF THE

OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 26, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk.

In Common Council, Jan. 27, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk pro tem.

BOARD OF OVERSEERS OF THE POOR.

HERBERT E. HILL .	•		٠			٠	•	•	Ward One.
CHARLES S. LINCOLN,	Chair	man	•	•		•	•		Ward Two.
EDWARD GLINES .	. •	•						•	Ward Three.
CHARLES G. BRETT					•		•		Ward Four.

CHARLES C. FOLSOM, General Agent. GEORGE T. LINCOLN, Secretary.

CITY OF SOMERVILLE.

To the Honorable City Council of the City of Somerville:

Gentlemen, — The Overseers of the Poor respectfully submit this as their annual report for the year ending Dec. 31, 1886.

For the expenditures and receipts, they refer to the tabulated statements hereto appended, prepared by the Secretary of the Board, by which it will appear that the net saving for the year has been about three thousand dollars from the annual appropriation, and an expenditure of two thousand dollars less than during the year 1885. These figures speak for themselves, and need no comment, but the Board would remark that the affairs of this department have been managed with care, having due regard to its duty to the unfortunate poor, as well as to the constituents through whom they receive their trust.

The Overseers of the Poor will again call the attention of the City Council to the urgent need of an almshouse for the proper administration of the affairs of this department, when considered from a standpoint of economy, or that of a convenient or humane method in the discharge of the duties of the Board. The subject was brought before the city government early last year, and the members of this Board appeared before an appropriate committee, and gave full and detailed statements as embodying their reasons for their recommendations. It would require too much space here to repeat the arguments and reasons that might be urged, and which were substantially given before that committee, but it should be said, however, that the Board will be ready at any time when requested to present its views upon this important question.

In closing this report, the members of the Board will give their testimony to the faithful and efficient aid they have received from the General Agent and Secretary of the Board. They will also add that the last two years' experience convinces them that the new

system for the management of this department, inaugurated under the statute of 1885, was wisely adopted, and has proved salutary in its operation.

CHAS. S. LINCOLN, Chairman. HERBERT E. HILL. EDWARD GLINES. CHARLES G. BRETT.

SOMERVILLE, Dec. 31, 1886.

STATEMENT (A) OF THE MONTHLY EXPENDITURES ON THE SEVERAL ACCOUNTS, WITH PAY-ROLLS.

Amount of Pay-rolls.	\$3,296 01	965 30	908 12	1,805 75	662 41	972 22	1,663 89	290 00	774 84	1,395 11	83 699	06 889	\$14,341 S3
Miscel- laneous.	\$36 20	76 35	13 53	30 21	24 34	26 30	29 72	3 50	42 01	55 35	62 72	19 34	\$417 77
Salaries.	\$116 66	116 66	116 66	116 66	116 66	116 66	116 66	116 66	116 66	116 66	116 66	116 66	\$1,399 92
Burials.	\$29 00			47 75	10 00	2 00	2 00	15 00	10 00	40 00	1	l	\$161 75
Dry Goods.	\$21 75	2 00	1 75	ı	1	4 00	1	4 50	I	1	7 00	I	\$46 00
Boots and Shoes.	\$64 15	17 00	2 50	8 40	9 35	1	1	1		18 60	-	1	\$120 00
Fuel.	\$268 70	123 96	121 88	i	1	1	22 70	1	1	21. 80	59 95	115 50	\$734 49
Paid Public Institutions.	\$1,070 59	43 00	1	957 03	118 08	350 90	631 05	1	301 61	691 93		1	\$4,164 19
Paid other Cities and Towns.	\$1,069 78	1	185 00	33 71	1	18 44	477 20	2 00	3 00	34 29	42 50	78 00	\$1,943 92
Groceries.	\$302 92	277 83	134 50	281 00	69 50	148 50	93 46	172 87	44 00	144 23	110 18	38 79	\$1,817 78
Board.	\$164 76	152 00	180 80	165 49	178 98	179 92	153 40	148 97	144 06	158 75	151 77	147 11	\$1,926 01
Rent.	\$151 50	151 50	151 50	165 50	135 50	122 50	136 50	126 50	113 50	113 50	118 50	123 50	\$1,610 00
	Jan.	Feb.	March,	April,	May,	June,	July,	Aug.	Sept.	Oct.	Nov.	Dec.	

CLASSIFICATION (B) OF PAYMENT	TS T	о то	WNS	ANI	O CITI	ES.
To city of Boston, aid to paupers		•			\$631	70
" " Chelsea, " "		•		٠	141	
" " Worcester, " "				•	105	00
" " Cambridge, " "		•	•		64	24
" " Lowell (Truant School)	•	۰		۰	146	46
" " Fall River, aid to paupers				٠	2	20
" " Lawrence, " "			•		96	00
" " Lynn, " " " "			•		59	00
" " Newburyport," "	•				130	00
" "Taunton, " " "	•				2	00
Town of Peabody, "" "		•	•		267	97
" "Barnstable, " "					52	00
" Medford, " "				•	48	00
" "Melrose, " "	•				69	00
" "Andover, " " "				٠	78	00
" " Holliston, " " "					78	00
					31,943	92
OF ACCIDICATION (C) OF DAYMENT	e ma	DITDI	10 13	***************************************	<u> </u>	
CLASSIFICATION (C) OF PAYMENT			no ir			
To State Hospital for the Insane at		ers	•		\$1,750	
Worcester Lunatic Ho-pital .			•		1,257	
Taunton "				•	180	
Asylum for Chronic Insane at Commonwealth of Massachusetts				ers	357	39
at Danvers and Tewksbury)	`				391	56
Master of House of Correction	•	•	•	•	143	
Massachusetts General Hospital		•	•	•		00
City Hospital, Boston	٠	•	•	•		00
Carney Hospital, "	•	•	•	•	9	29
Carney Hospital,	•	•	•	•		23
				6	\$4,164	19

COMPARATIVE STATEMENT (D) OF EXPENDITURES IN THE SEVERAL ACCOUNTS FOR 1885 AND 1886.

		ACCO	UNT	s.			1885.	1886.
Rents							\$1.561 00	\$1.610 00
Board							2,264 07	1,926 01
Groceries	3						2,004 27	1,817 78
Dry Good							233 37	166 00
Salaries							1,395 82	1,399 92
							1.076 27	734 49
Burials							377 00	161 75
Paid othe							1,719 11	1,943 92
Paid pub							5,459 28	4,164 19
Miscellar					•	•	340 13	417 77
То	tal						\$16,430 32	\$14,341 83

PAY-ROLLS (E) FOR 1885 AND 1886.

								1885.	1886.
January .								\$2,578 43	\$3,296 01
February.	•	•	•	•	•	•	•	1,198 38	965 30
N/C 1.	•	•	•	•	•	•	•	i i i	908 12
	•	•	•	•	•	•	•	2,293 47	
April .	•	•	•	•	•	•	•	1,400 97	1,805 75
May							• /	639-81	662 41
June .								1,211 58	972 22
July.							. 1	2,373 39	1,663 89
August .						•		710 83	590 00
September							. 1	898 50	774 84
October .								1,773 42	1,395 11
November								434 94	669 28
December								916 60	638 90
Total								\$16,430 32	\$14,341 83

Excess of expenditures of 1885 over those of 1886, \$2,088.49.

STATEMENT (F) OF SUMS RECEIVED FROM OUTSIDE SOURCES.

	SUP	PORT (OF F	OOR.				
		Cre	dit.					
Appropriation .			٠	•			\$15,000	00
City of Boston .					\$189	50		
" Newburyport					48	50		
" Salem .					10	50		
" Malden .				•	22	50		
" Cambridge .				-	154	55		
" Lowell .	•	•	•	•	49	50		
" Fitchburg .	•	•	•	•	21	00		
Town of Manchester	•				29	00		
" Carlisle .					59	90		
" Natick .				•	24	50		
" Arlington .					46	50		
" Sandwich .		•			45	75		
" Medford .				•	90	88		
" Manchester					29	00		
" Sunderland	•				7	00		
" Woburn .					27	00		
" Sudbury .				•	117	78		
" Sudbury .		•			24	93		
Commonwealth of Mas					809	73		
" burials			•	•	65	00		
S. W. Dow					212	17		
E. J. Jenkins .		•		•	25	39		
Patrick Foley .					13	13		
					48	00		
J. A. Sawyer, administ						00		
O. S. Knapp, guardiar				•		32		
C. C. Folsom, "					160			
Elizabeth Abbott .						00		
							2,481	77
							*	
		De	ebit.				\$17,481	77
Expenditures .			300				\$14,341	83
Unexpended balance			•	·			3,139	
Cheapender balance	•	•	•	·	•	•		
							\$17,481	77

NUMBER	OF F	PERSO	NS S	SUPPO	ORTE	D AN	D A	IDED	DUI	RING	1886.
Persons as	ssiste	d	•					•		•	896
Families	44		•				•	•		•	201
Persons fu	illy st	apport	ed	•							77
Sane perso	ons in	almsl	house	s and	priva	ate fa	milie	es		•	28
Sick perso	ns in	hospi	tals a	and pr	rivate	famil	lies	•	•	•	11
Persons in	Hou	se of (Corre	ction,	Refo	orm S	choo	l, etc.		•	13
Insane pe	rsons	and	comi	non	drunk	ards,	in	hospit	als a	and	
privat	te fam	ilies .		•			•	•	•	•	25

REPORT

OF THE

BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 9, 1887.

Referred to the committee on printing, to be printed in the annual reports. Send down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

Concurred in.

IN COMMON COUNCIL, Feb. 10, 1887.

DOUGLAS FRAZAR, Clerk.

CITY OF SOMERVILLE.

Office of the Board of Health, City Hall, Jan. 31, 1887.

To his Honor the Mayor and the City Council:

Gentlemen, — In the discharge of our duty we submit the ninth annual report of this Board, showing, mainly in tabulated form, the principal part of the work accomplished, and the city's sanitary condition during the year ending Dec. 31, 1886.

MEMBERSHIP.

The membership of the Board was the same as in 1885. Jan. 12, George C. Skilton was reappointed for a term of two years.

ORGANIZATION.

Feb. 3, officers were elected as follows: -

George A. Kimball, Chairman.

GEORGE I. VINCENT, Clerk.

WILLIAM H. BRINE (40 Houghton Street), Inspector.

NUISANCES.

We show by the following table the number of nuisances of various kinds abated by our direction during the year, the months under which they are set being those in which the complaints were received:—

NUISANCES ABATED IN THE YEAR 1886.

	7												
	*January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
C.II. 1	10			7'0									
Cellar damp	13	8	1	12	2	4 2	3		1	::)	::		47
offensive			2	2	2	•••							6
" overflowing Connections of drainage pipes	1		2	6	••	3	••	••	••	••		••	12
defective	2	6	3	6	5	9	4	1	1	5	3	1	46
Drainage defective emptying into cel-	11	5	3	12	2	8	3	2	5	4	3	3	61
lar	2		1	1		2		••	1			2	9
Drainage emptying on surface	1			4	1	2		1	1	1	2	1	14
Drainage not ventilated	9	5	2		2	21	3	4	5	3	6	1	61
Drain-pipe clogged defective	2	6	4	2	2	4	2	i	i	ï	1 4	$\frac{2}{2}$	3. 3 1
Gas-pipe leaking			• •				1		••	••	••	• •	1
Hennery offensive	i	••	••		1		1	• •	i				1 3
Manure exposed and offensive,	2 2	2	1	7	6	1		3	4	••	1		27
No house drainage facilities . Offal on land	3	••	i	1 3	2	i		i	i	i		• •	3 13
Offensive odor from burning rubbish													-
Offensive odor in and about			••		••		1		••			•••	1
dwellings	4	9	1	13	1	9	4	• •	1	3	• •	••	45
Opening in drain-pipe in cellar, Premises filthy	5	1	4	2	2	• •		i	3	1	3 1	• •	$\begin{array}{c c} 6 \\ 20 \end{array}$
Privy-vault defective full	3	2	1 1	9	$\frac{2}{17}$	$\frac{2}{12}$	1 4	'n	3	4	ï	2	6 59
offensive	16	ĩ	2	10	14	24	9	8	6	7		1	98
Slops thrown on surface Stable and stable premises	6	••	1		2		1	••	••	1	••	• •	11
filthy and offensive	1					2	3	1					7
Stagnant water in house-cellar, on surface.	5 4	ï	1 3	1	i	1 1	1	••	1	1	••	••	11 12
Waste-pipe defective	3	3	2		3	2		::	1				14
" not trapped Water-closet defective	28 4	5	$\frac{9}{2}$	8	19	19	11 1	$\frac{2}{4}$	5	$\frac{2}{1}$	20	7	135 18
" insufficiently sup-	*			1	••			T	8 -		••	• •	
plied with water	4	2	3	2	• •	8	4	4	2	2	• •	••	31
supplied with water	1						1						2
Water-closet offensive Wooden waste-pipes and	8	1	4	2	3	10	4	5	1	3	2	••	43
drains	2		1		2			1		1	• •	••	7
Total	143	59	59	104	92	150	62	40	46	43	47	22	867
	1	1					<u> </u>						
Number of nuisances a	bat	ed			•			•		•	•	6	367
ee ee ee r	efei	red	to	the	Bo	ard	of	188	87				108
· · · · · · · · · · · · · · · · · · ·	om	plai	ned	of			,						975
" complaints													
nuisance	•		_										405
								•		•	·		
" houses ord	iere	a v	acai	iea	•	•	•	•		•	•		14

^{*} Including nuisances referred to us by the Board of 1885.

The foregoing statement is exclusive of a large number of less serious causes of complaint which have been removed, and were caused, chiefly, by a lack of tidiness, which, if not corrected, would probably result in positive nuisances.

PERMITS.

Permits, expiring annually on May 1, have been issued for the keeping of swine and goats, and the collection of grease, the same as in previous years; the fees being two dollars for a grease permit and one dollar for each goat or swine.

Swine. — Number for which permits were asked, 240; number for which permits were granted, 237; number for which they were refused, 3.

GOATS. — Applications received for 47; granted for 46; and refused for 1.

Grease. — Number of applications, 11; number granted, 10; number refused, 1. Five of the parties who received permits reside in Somerville, three in Boston, and two in Cambridge.

We have recommended two residents of Somerville as proper persons to receive licenses to collect grease in Cambridge.

The Board of Health of Boston licensed 33 residents of Somerville to collect grease in that city during the year; and 6 of our citizens received similar licenses in Cambridge.

ASHES.

The contract with Martin Gill for removing ashes and house dirt, for the sum of eighteen hundred dollars for one year, expired April 29, and a new contract for the year commencing on that day was made with Jeremiah McCarthy, who was the lowest bidder, for the sum of seventeen hundred dollars.

The ashes, or other materials, must be set in barrels on the outer edge of the sidewalk, before nine o'clock of the day when

they are to be removed, and must not contain any filth or offal. They are removed on Wednesdays in Ward One, Thursdays in Ward Two, Fridays in Ward Three, and Saturdays in Ward Four. It is estimated that about nine thousand loads were removed during the year.

HOUSE OFFAL.

The contract with Christopher Burke for collecting the house offal, free of charge, expired June 26, and a contract for the term of three years from that date was made with Henry Gray, the lowest bidder, for a remuneration of nine hundred dollars per annum, and the offal. The collections should be made at least once each week in the months of December, January, February, and March; twice a week in the months of April, October, and November; and three times per week in the five remaining months. About three hundred cords were collected in the year 1886.

NIGHT-SOIL.

The removal of night-soil by the "odorless" process seems to give good satisfaction, as we receive no complaints. The contract is with Mr. R. M. Johnson, of Arlington, for the term ending Feb. 1, 1888, and the price charged is four dollars per load, or part of a load, of eighty cubic feet.

Order books may be found at the police station on Bow Street, and at the grocery store at the corner of Perkins and Franklin Streets. The contractor informs us that 533 loads were removed last year.

SEWERS.

We have had occasion every year to speak of the need of sewers in Lowell Street and vicinity, in Ward Three, but during the past year a system of sewers has been provided which will take the house drainage of all that section.

Sewers are still needed in Woodbine, Madison, and Montrose Streets, which are on the slope between Highland Avenue and the Lowell Railroad.

DEATHS.

Four hundred and ninety-two deaths have occurred during the year, and thirty still-births.

MORTALITY IN SOMERVILLE IN 1886.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	Deecmber.	Total.
ZYMOTIC DISEASES. Miasmatic.													
Scarlet fever	i :: ::	2	1	1	2 4 1 1 	2 1 	1 3 10	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	2 6	··· 2 ··· 2 ··· 2 ··· 1	1 2 1	3 1 	3 20 4 3 4 11 26 5
Whooping cough Phlebitis Measles Rheumatism	i 	2 1	2	1	•••	1	••	1	• •	··· 1	• •	i ::	7 1 1 2
Diatetic.						• •					1		1
CONSTITUTIONAL DISEASES.													
Diathetic. Anæmia Cancer Cancer of breast Cancer of liver Scrofula	• •	2	• •	1 1 		• •	1 4 	`i 1	i ::	·· 1 ··	•	1	1 9 2 1 1
Tubercular. Tubercular meningitis	1		1		2					1	2	1	8
Marasmus	$\frac{1}{2}$	2	*	2	2 4	••	1	2	2			••	19
LOCAL DISEASES. Nervous System.													
Apoplexy	2 1 1	1 2 1 1	1 1 2 3		1 1 2 1 	1 1 2 	1 1 1 2	i :: ::	1 2 1 	··· 2 ··· 2 ··· 1	; i i ::	2 1 1 	9 11 3 12 11 10 1 3
Organs of Circulation.													20
Heart disease	6	3	3	4	••	4	3	2	1	4	2	1	33
Respiratory Organs. Pneumonia	2 1 ···	7 3 1	1	5 1	3 1		3	2 1	1	5	3	7 1 8	39 8 1
Phthisis pulmonalis Pleurisy	2	3 1	7	10	11	8 1	11	9	8	8	8	8	93 2

MORTALITY IN SOMERVILLE IN 1886. - Continued.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Digestive Organs. Gastritis Enteritis Peritonitis Liver disease Obstruction of bowels Hernia Abdominal Tumor	1 1	2 2 2	2 1	3 1 	:: 1 2 ::	······································	•••	2	3 2	2	2 2 2	i i i ::	6 5 12 9 1 1 1 1 1
Genito-Urinary Organs. Bright's disease Diabetes Cystitis Addison's disease DEVELOPMENTAL DISEASES.	1	1	1	3	1 	3	••	2 1	1 1 1 1	5	3	5	26 1 2 1
Of Children. Premature birth and infantile debility	••	3 1	•	••	1	1	4	2	3	1	2	2	19
Old age	2	2	4		5	1	••	••	3	3 1	ï	••	20 2
VIOLENT DEATHS. Asphyxia	• • • • • • • • • • • • • • • • • • • •	••	1 1	1	••	1 1	i 	1 1 	2	·· ·· i	• •	2	5 2 1 5
Suicide	••		••	1		••		1	1	••	• •	••	3
Unknown		1	••	••		••	1	••	••		1	••	3
Total	27	45	38	42	47	32	48	46	43	45	38	41	492
Still-born	2	4	1	••	3	3	3	1	5	3	2	3	30

DISEASES DANGEROUS TO PUBLIC HEALTH.

The prevalence of diseases adjudged dangerous to the public health has been less than in 1885, and nothing like an epidemic has occurred in any part of the city. Not a case of small-pox, varioloid, or typhus fever has been reported.

SCARLET FEVER. — Number of cases reported, 110. Number of deaths, 3. We have continued to placard all houses visited by this

disease with warning-cards, and they are also fumigated by the inspector after its termination.

DIPHTHERIA. — Number of cases reported, 91. Number of deaths, 20. Warning-cards are used in all cases of this disease, and as soon as a case is reported the premises are inspected, and the owner, agent, or occupant is required to remedy all sanitary defects as soon as practicable. The houses are also fumigated.

Typhoid Fever. — Number of cases reported, 20. Number of deaths, 3. We do not use warning-cards or fumigate in connection with this disease, but the premises are inspected, and sanitary defects are required to be remedied.

Tables. — The usual tables are given of cases of scarlet fever, diphtheria, and typhoid fever, and of deaths from the same reported during the year; and of deaths of these three diseases in each of the last ten years; also the inspector's tabulated report of the sanitary condition of houses visited by diphtheria.

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1886.

	SCAR	LET FE	VER.	DIP	HTHE	RIA.	Түрн	OID F	EVER
Months.	Cases reported.	Number of deaths.	Percentage of deaths.	Cases reported.	Number of deaths.	Percentage of deaths.	Cases reported.	Number of deaths.	Percentage of deaths.
January February March April May June July August September October November December Total	24 16 16 10 13 11 -4 2 3 6	: :1 :2 :: :: :: :: ::	6 15 	10 9 7 5 10 14 10 2 4 3 8 9	1 2 1 4 2 1 2 2 2 3	10 22 20 40 14 10 50 67 25 33 21	2 1 1 1 1 4 3 3 4 4 20	······································	67 33

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN THE LAST TEN YEARS.

		S	CA	RL	ET	F	ΈV	ER					D	IP	HT	HE:	RI	Δ.			-	3	'Υ]	PH9	OIL	F	EV	ER		
Months.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.
January. February March April May June July August. September October. November December		: i :: ::	2		··· i	• •	1	 2 1 1 3 1	2 1 1 5 1 2 1	1 2		4 4 5 1 1 2 1 1 2 1 5	$\begin{bmatrix} -6 \\ 4 \\ \cdot \cdot \cdot \\ 1 \\ \cdot \cdot \\ 4 \\ 2 \\ 5 \\ 2 \\ 4 \end{bmatrix}$	771218	7 4 7 2 3 3 2 6 2 3 2 6 2 3	11 5 7 8 5 2 1 1 1 7	2 3 3 6 1 3 3 1 1 2 1 5	1 2 1 2 4 1 1	2212223154	1 2 1 4 2 1 2 2 3 3 -				• •	1 2 1 2	`i 1 `i 	1 1 1 1	1		• •
Total .	10	15	16	6	1	4	6	8	14	3	59	27	29	19	44	52	31	21	28	20	6	5	3	7	S	8	13	8	11	6.9

Number of Family.	Nationality.	Occupation of Head of Family.	Number of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Res	District,	Soil.	Locality.	House Drainage.			Condition of Cellar,	Privy.	' Remarks.
1 2 3 4 5 6 7 8 9	American " " " " " " " Nova Scotia American " "	Bookkeeper . Salesman	1 2 3 4 5 6 7 8 9 10 11 12	Male Female, Male Female, Male Female,	6 7 4 6 6 16 8 8 3 16 14 29 2	January	Fat	tal 5	Sand	Fair . Good	Satisfactory Drainage defective Defective Satisfactory Drainage defective Waste-pipe not trapped House drainage defective Satisfactory	. Da	Damp "Ory: Oantp Ory:		Privy vault offensive	Visited house where they had a case of diphtheria. Waste-pipes not trapped. House drainage not ventilated. "" " ventilated. "" "" Cesspool 4 feet from house. Offensive odor in house from adjoining stables. Defect at connection of soil and drain-pipe.
11 12 13 14 15 16 17 18	" . Irish American . " . " . " .	Laborer Professor Salesman Merchant Clerk Night watchman Salesman	13 14 15 16 17 18 19 20 21 22 23 24	Female, "" Male "Female, "" "" ""	30 20 4 mos. 27 21 mos. 22 20 32 54 3½ 8	March. February March	. Fat	tal	" "	Low . Good . Good .	Drainage defective. Waste-pipes not trapped Drainage defective.		ry, ar	ny	Water-closet in cellar defective 10 feet from house; offensive	Soil-pipe not ventilated. Waste-pipe not trapped. House drainage not ventilated. In same house as No. 10. Waste-pipes not trapped. House drainage ventilated. [No. 11; on the table. C'p'16 ft. fm. h., def'e; mother of this child atten. in fam. Waste-pipe not trapped; cessp'18 ft. from h. f'1 & off.
19 20 21 22 23 24 25 26 27 28	Canadian . American . Irish . Nova Scotia . Amerlcan .	Insurance Agent . Brakeman . Lather . Laborer . Produce . Salesman . Laborer . Carpenter . Superintendent .	25 26 27 28 29 30 31 32 33 34 35	Female, Male . Female, " " " Male . Female, Male .	29 38 20 20 2 16 5 9 2 51	April	Fat	tal 10 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clayey gravel, Gravel	Fair . Good . Food . Good . Low .	Satisfactory Drainage defective Drainage flowing on surface Drainage defective """ """ """ """ """ """ """	Di Di No	i.y.	& offen'e odor in same, "" "" "" "" "" "" "" "" ""	8 feet from house; full and offensive, Insufficient supply of water in W. C., 10 feet from house; full and offensive, 8 " " offensive	House drainage not ventilated. Waste-pipe not trapped; con. of W. and D. P. defec. Defect in drain-pipes in cellar. Cesspool 3 ft. from house, full. Waste-pipe not properly trapped. House drainage defective. Waste-pipe not trapped.
29 30 31 32 33 34 35 36 37 38	46	Salesman Laborer Salesman Carpenter Machlnist Moulder Carpenter	36 37 38 39 40 41 42 43 44 45 46 47	Male .	3 5 4 11 9 4 6 9 14 20 4 6 6	""	Fat	2 10 5 tal	" · · · · · · · · · · · · · · · · · · ·	Good . Fair .	Drainage defective . "" "" "" "" "" "" "" "" ""	. Di	amp oamp ory . oamp		12 feet from house; full and offensive,	House dra'nge vent'd; child taken sick away from home. House drainage ventilated. Waste-pipe not trapped. House drainage not ventilated. Waste-pipe not trapped. House drainage defective. Waste-pipes not trapped. Waste-pipe not trapped. House drainage not ventilated. Waste-pipe not trapped. Waste-pipe not trapped.
39	Irish	Widow	48 49 50	Male Female,	14 3 8			. 1	"	Low .			t,		10 feet from house; offensive	Waste-pipes not trapped.

Number of Kamily.	Occupation of Head of Family.	Number of Patient.	Sex of Patient,	Age of Patient.	Date of sickness.	Resuit.	District.	Soil.	Locality.	House Drainage.	Condition of Celiar.	Privy.	Remarks.
40 American	Driver	51 52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71	Male . Female, Male Female, Male Female, Male Female, Male Female, Male Female, Male Female, Male Female, Male	4 11 14 6 6 6 8 12 4 3 7 7 7 2 5 12 26 15 11 11	July. June "" "" July July "" "" "" "" "" August "" September "" Cottober ""	Fatal.	5 5 1 2° 4 10 1 1 5 1 5 7 6 6 5 1	Gravel Clayey gravel, Gravel Sand Gravel Clayey gravel, Gravel Clay Clay Gravel	Fair Good . Low Fair Low . Fair Good . Good . Fair .	Drainage defective . "" "" Drainage defective . "" "" Drainage defective . Drainage defective . "" "" "" "" Satisfactory . Drainage defective .	Dry	8 feet from house; offensive Water-closet defective and offensive, Water-closet in cellar defective 8 feet from house; full and offensive, Water-closet in cellar defective 20 feet from house; full and offensive, 4 feet from house; offensive Water-closet in cellar defective	Waste-pipe defective. Waste-pipe not properly trapped. Waste-pipe not trapped. Waste-pipe not prop. trapped; house drain. not ven. House drainage not ventilated. """ Trainage not ventilated. Waste-pipe not trapped. """ House drainage not ventilated. Waste-pipe not trapped. Outlet of soil-pipe below chamber-windows. House drainage defective. Stable adjoining house; offensive. House drainage defective. """ House drainage ventilated. House drainage not ventilated. Waste-pipe not trapped.
61	Engineer Agent Merchant Barber Salesman Bookkeeper Tinsmith Teamster Printer Laborer " Salesman	74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89	Male Female,	10 10 4 9 7 8 3 6 3 7 2 3 6 5 3 6	November "" "" December November "" December "" "" "" "" "" "" "" "" "" "" "" "" "	Fatal Fatal Fat Fat. Fatal	9 5 5 2 5 5 9	"	Good	Drainage defective . Drainage defective . """ """ Drainage defective .	Damp Dry Damp Damp Damp Damp	Waste-pipe not trapped 10 feet from house; offensive Water-closet in cellar defective """ 20 feet from house; offensive	House drainage not ventilated. Cesspool 4 feet from house. """ House drainage not ventilated. Waste-pipe not trapped. House drainage uot ventilated. """ """ """ """ """ """ """

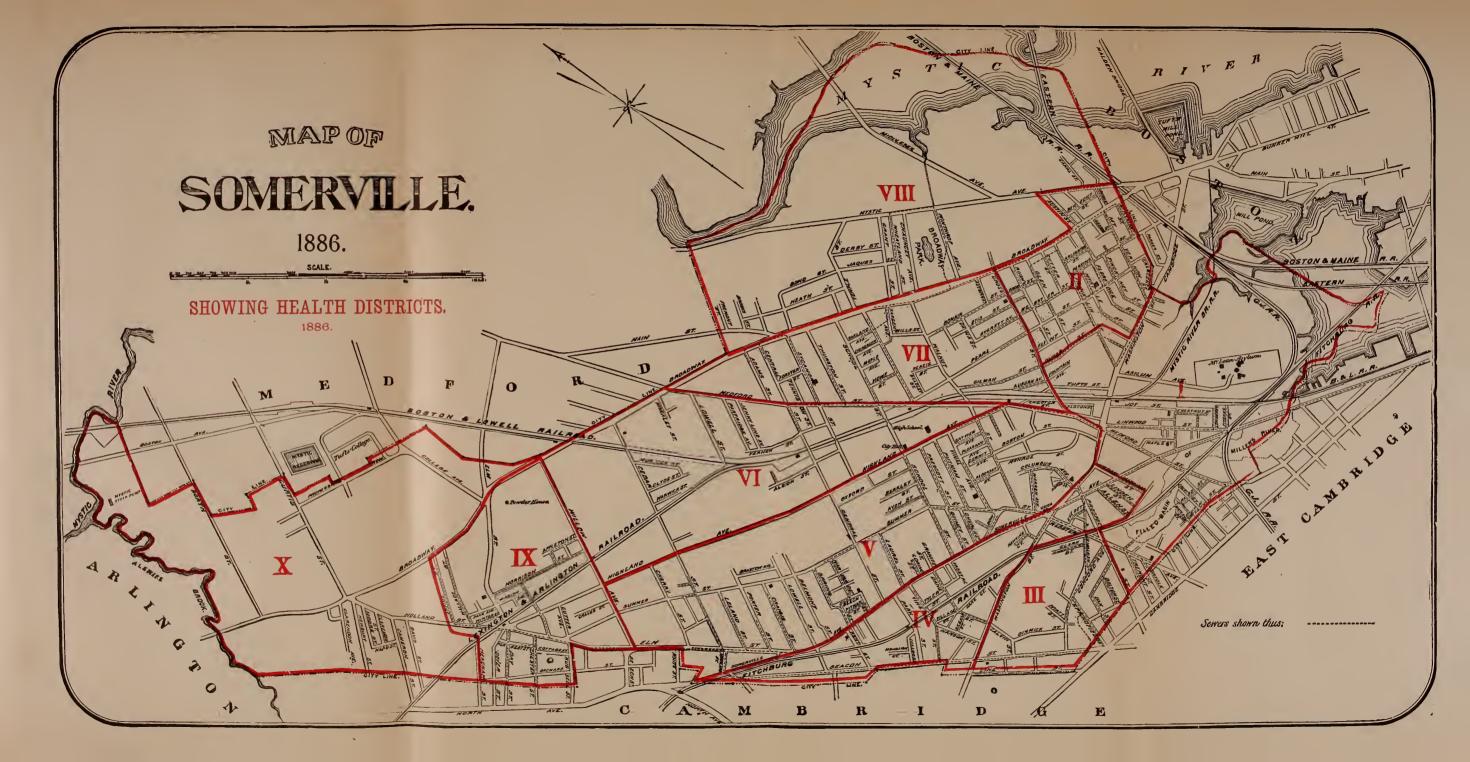
DISTRICTS.

Our map of the city, with its health districts (explained in earlier reports), and the locations of dangerous diseases reported in 1886, is presented as usual. We also give various tabulated statements as to sanitary conditions, sickness, and death in these districts.

Our estimate of the population is based upon the presumption that the census population of 1885, as divided among the different health districts, would correspond with the distribution of poll-tax payers in those districts, and that the increase for the year was uniform.

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST THIRTEEN YEARS, EXCLUSIVE OF DEATHS IN THE MCLEAN ASYLUM.

Entire City.	A.	146	9		Rate Per 1,000.	888 11120 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 1100 11	18
Entire	2,660	31,746	5,245	6.1	No. of Deaths.	475 486 428 375 387 442 464 464 482 482 482 482 482 482 482	5,926
X.	456 A.	1-	167	4.7	Rate Per 1,000.	8 21 00 11 12 12 12 12 12 12 12 12 12 12 12 12	15
	456	777	~	4	No. of Deaths.	804	120
Į,	174 A.	1,763	335	5.3	Rate Per 1,000.	222222222222222222222222222222222222222	15
XI	17.	1,,	60	10	No. of Deaths.	255 112 122 123 124 125 126 127 127 127 127 127 127 127 127 127 127	271
VIII.	2 A.	986	196	5.0	Rate Per 1,000.	22 22 23 24 11 25 25 25 25 25 25 25 25 25 25 25 25 25	18
	482	6			No. of Deaths.		185
УП.	4 A.	3,315	546	6.1	Eate Per 1,000.	1142224	13
	194	က်	7.0		No. of Deaths.	888888884	462
VI.	285 A.	1,340	312	4.3	Rate Per 1,000.	£ 8 8 4 8 ± 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	28
	288	1,			No. of Deaths.	4222244882428	393
Λ.	A.	290,9	666	6.1	Rate Per 1,000.	020 020 020 020 020 020 020 020 020 020	15
	361	6,			No. of Deaths.	725 777 777 777 777 778 85 85	923
IV.	171 A.	3,882	614	6.3	Rate Per 1,000.	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19
I	17.	66	9		No. of Deaths.	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	780
HI.	93 A.	2,188	350	6.2	Hate Per 1,000.	11 12 12 12 13 13 14 14 14	19
I	66	2,	, es		No. of Deaths.	422 822 822 844 845 846 858 868 868 868 868 868 868 868 868 86	432
II.	107 A.	5,644	832	6.8	Rate Per 1,000.	427722227220116	13
	100	5,			No. of Deaths.	27.50 20.00	754
I.	7 A.	5,784	894	6.5	Rate per 1,000.	## 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	27
	337	5,	ω -		No. of Deaths.	143 143 143 163 163 163 173 173 173 173 173 173 173 173 173 17	1,606
ts	•	ation .	ings .	Average in each dwelling,	. 23		ars,
Districts	Area	Population	Dwellings	Ave each d	YEAR.		Thirteen years,
		• (988I aI ∕			1874 1875 1876 1877 1879 1880 1883 1883 1883 1883 1884 1885 1886 1886	Thir



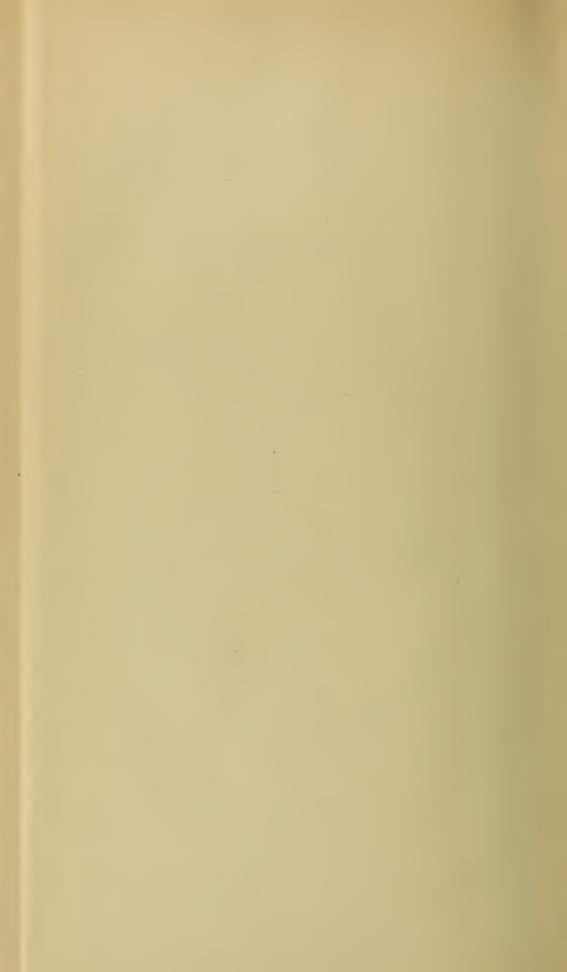


TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE IN 1886, WITH THE NUMBER AND RATE IN EACH DISTRICT.

,		SUMP- ON.	PNEU	MONIA.	HE. DISE	ART CASE.		LERA NTUM.		SHT'S
Districts.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 f pop	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.
I	24 9 6 18 11 9 10 	4.15 1.59 2.74 4.64 1.81 6.72 3.02 2.27 2.57	9 1 4 5 9 2 5 1 3	1.56 0.18 1.83 1.29 1.48 1.49 1.51 1.01	8 4 2 4 6 4 2 	1.38 0.71 0.91 1.03 0.99 2.99 0.60 1.13 1.29	10 1 1 6 1 4 1 1 1	1.73 0.18 0.46 1.55 0.16 2.99 0.30 1.01 0.57	4 1 2 4 5 1 3 2 2 2	0.69 0.18 0.91 1.03 0.82 0.75 0.90 2.03 1.13 2.57
Total	93	2.93	39	1.23	33	1.04	26	0.82	26	0.82

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH DISTRICT IN 1886.

	Sc	ARLET	FEVE	R.		Dірнт	HERIA.		T	грноп	FEVE	ER.
DISTRICTS.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.
I	13 10 11 17 21 4 18 1 11 4 11	1 1 1 1 	2.25 1.77 5.03 4.38 3.46 2.99 5.43 1.01 6.24 5.15	0.46 0.26 0.75 	15 12 1 3 29 2 14 7 8	3 2 1 1 10 1 1 1	2.59 2.12 0 46 0.77 4.78 1.49 4.22 3.97 10.30	0.52 0.35 0.46 0.26 1.65 0.30 0.57 1.29	5 5 5 2 2 2	1 1 1 3	0.86 0.89 0.77 0.33 0.60 1.70 0.63	0.17 .: 0.26 .: 0.30 .: 0.09

RATES PER THOUSAND OF POPULATION OF CASES OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED, AND OF DEATHS FROM THE SAME, IN THE LAST SEVEN YEARS.

for ars.	Typhoid Fever.	3.30	0.81	1.02 0.15	1.51 0.49	0.89	0.83 0.12	0.72	2.25 0.81	0.99	2.05 0.61	1.46 0.32
Average for Seven Years.	Diphtheria.	4.95	2.96	5.59	3.15 0.66	4.74	9.60	4.94	6.44	3.15	4.71	4.52
Ave	Scarlet Fever.	3.49	2.03	5.01	4.05	3.14	8,30	4.51	4.67	5.59	5.32 0.20	3.84
	Typhoid Fever.	0.86	0.89	::	0.77	0.33		0.00	::	1.70	: ;	0.03
1886.	Diphtheria.	2 59	2.12	0.46	0.77	4.78	1.49	4.22 0.30	::	3.97	10.30	2.87
	Scarlet Fever.	2.25	1.77	5.03	4.38	3.46	2.99	5.43	1.01	6.24	5,15	3.47
	Typhoid Fever.	1.83 0.55	0.19	0.48	1.36	0.17	0.79	1.60	6.44	1.20	2.72	1.37
1885.	*Diphtheria.	5.12	1.50	1.45	1.64	2.97	16.59 3 16	3.51	7.51	3.60	4.09	3.67
	Scarlet Fever.	5.67	2.63	8.70 0.97	9.54	6.98	10.27	7.34	7.51	22 81	9.55	7.54
	Typhoid Fever.	1.26	1.66	1.91	0.54	1 20 0.34	::	0.63	2.11 1.06	1.18	1.34	1.18
1884.	Diphtheria.	5.76	1.11	4.76	2 15 0.27	3.43	12.44	3.14	3.17	3.55	::	3.64
	Scarlet Fever.	11.35	2.40	10.90	8 86	2.58	26.44	10.06	17.95	7.09	10.74	8.21 0.26
	Typhoid Fever.	4.98 0.96	86.0	1.01	1 71 0.57	1.64	3.31 0.83	0.33	::	0.63	::	1.88
1883.	Diphtheria.	3.25	4.32	6.58	5,42 0.29	7.67	6.61	5.34	7.86	6.28	2.85	5.44
	Scarlet Fever.	1.91	3.53	3.04	0.29	2.74	13.22 0.83	3.68	3.37	2.51	::	2.93
	Typhoid Fever.	2.39	0.80	0.53	1.78	0.95	98.0	0.35	3.50	::	7.42	1.38
1882.	Diphtheria.	7.17	2.04	7.90	3.56	8.54	16.32	7.30	10.50	1.31	4.45	6.24
	Scarlet Fever.	1.00	::	3.69	1.78	1.90	1.72	1.39	::	::	7.42	1.42
	Typhoid Fever.	9.58 0.42	0.42	2.75	2.48 0.93	0.79	::	0.36	2.44	1.37	1.55	0.30
1881.	Diphtheria.	8.75	4.27	11.01	6.83	1.98	8.09	6.18	13.41	0.69	4.65	5.88
	Scarlet Fever.	::	2 35 0.21	1.65	0.62	66.0	::	0.73	::	1.37	::	0.05
	Typhoid .	3.08	0.90	0.58	2.29	1.26 0.21	0.95	1.15	1.29	0.72	1.64	1.56
1880.	Diphtheria.	2.42	6.08	8.72	2.29	3.77	5.69	5.36	3.86	2.16	6.55	4.32
	Scarlet Fever.	1,16	1,35	0.58	1.64	2.93	0.95	1.53	1.29	2.88	3.27	1.72
		Cases . Deaths,	Cases . Deaths,	Cases . Deaths,	Cases . Deaths,	Cares . Deaths,	Cases . Deaths,	Cases . Deaths,	Cases . Deaths,	Cases . Deaths,	Cases . Deaths,	Cases . Deaths,
	Districts.	H	ij	III.	IV.	>	VI.	VII.	VIII.	IX.	×.	City,

NUISANCES ABATED IN EACH DISTRICT IN 1886.

DISTRICT.	I.	II.	III.	IV.	v.	VI.	VII.	vпі.	IX.	X.	Total.
Distinct.									121.	11.	Lotan
Population	5,784	5,644	2,188	3,882	6,067	1,340	3,315	986	1,763	777	31,746
Cellar damp	13	7	4	2	14	2	3	2	••		47
Cesspool defective		• •	• •	• •	• •	1	i	••	2	2 3	3 6
" offensive				i	• •	2	3	i	i	4	12
Connections of drainage pipes	• •	• •	• • • •	1	• •	4	, ,	1		7	12
defective	10	1	5	1	16		6		5		46
Drainage defective	16	3	5	3	15	1	7	5	3	2	61
" emptying in cellar.	2		2	1	2	1	1				9
" emptying on surface,	3	1		2	1	2		3	1	1	14
" not ventilated	4	6	3	3	31	1	5	1	2	5	61
Drain-pipe clogged			2		3	• •					3
Gas pipes leaking	8	1	1	2	11		2	1	1	3	31 1
Hennery offensive	1 ::		1		i	6		• •	• •		1
Hens kept in cellar	2	i						• • •			3
Manure exposed and offensive,	9	î	3	3	4	i	2	2		2	27
No house-drainage facilities.	1							2			3
Offal on land	8	1		2		b	1		1		13
Offensive odor from burning	1										
rubbish	1						1				1
Offensive odor in and about	1 77			1 2	4-	0	3		7	1	4-
dwellings	11	4	4	2	15	2	2	2	1	1	45
Opening in drain-pipe in cellar, Premises filthy	1 9		1		$\frac{2}{2}$	3		3	2	1	20
Privy-vault defective	1	i		i	ī		1	1	ī		6
" full	28	1	i	8	3	8	1	2		4	59
" offensive	22	6	11	18	13	9	4	8	5	2	98
Slops thrown on surface	4	1		2				2	1	1	11
Stable and stable premises	l.	}	1		1	1					
filthy and offensive	3				1		2		1		7
Stagnant water in house-cellar,	3			3	1	1	3	• •			11
" on surface .	3	1		1	3	1		2	2		12
Waste pipe defective	23	1 16	1 4	1 6	5 52	2	3 15	1 5	• •	7	14 135
" not trapped Water-closet defective	20	10	2		6	1 1	15	1	5	4	18
" insufficiently sup			1 -	1	"		7	1	• •	*	10
plied with water,	4	6	2		8	1	4		2	4	31
· not supplied with						-	1		_		
water			1						1	٠.	2
offensive	8	2	4	1	15		8	1	1	3	43
Wooden waste pipes and		-		8							_
drains	3	1		1		1		1		• •	7
		-		1							
10 1	000	0.4	V		00-	10	00				007
Total	202	64	55	64	225	40	80	46	39	52	867

APPPRORIATION	FOR HEALTH	DEPARTMENT,	AND	EXPENDI-
	TURES THE	REFROM, 1886.		

TURES THEREFROM	VI , 18	86.			
Appropriation			\$	3,500	00
Receipts for permits to keep swine	and	goats			
and to collect grease		_		303	00
Total credit			. \$	3,803	00
Expenditures: —					
For inspector's salary		\$1,000	00		
" collecting ashes (including D					
ber, 1885)			33		
" collecting offal (for 6 months).					
" fumigating (sulphur)					
" oil of peppermint					
" vaccine virus		. 14	50		
" burying dead animals					
" abating nuisances					
" books, stationery, and printing					
" serving notices in other cities.					
" carriage hire					
" rent of post-office box					
Total debit	,		•	3,588	64
Balance unexpended				\$214	36

GEORGE A. KIMBALL. GEO. C. SKILTON. THOS. M. DURELL, M.D.

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REPORT

OF THE

CITY PHYSICIAN.

IN BOARD OF ALDERMEN, Feb. 9, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

IN COMMON COUNCIL, Feb. 10, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

To his Honor the Mayor and the City Council:

Gentlemen, — I respectfully present my annual report as City Physician.

I have made during the year 1,813 visits; of these, 303 were surgical, and 46 were made to persons at the police station. I have, in accordance with the law, viewed the bodies, and given certificates of the probable cause of death, of 11 persons, who died unattended by any physician. I have examined 22 persons supposed to be insane, and have given certificates in 17 cases.

I have vaccinated 201 persons free of expense. Twenty-two persons had teeth extracted at my office. I have examined six applicants for the police force.

Respectfully submitted,

THOS. M. DURELL, M. D.,

City Physician.

Jan. 28, 1887.



REPORT

OF THE

TRUSTEES OF THE PUBLIC LIBRARY.

IN BOARD OF ALDERMEN, Jan. 26, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

Concurred in.

IN COMMON COUNCIL, JAN. 27, 1887.

DOUGLAS FRAZAR, Clerk.

To the City Council:

The Trustees of Somerville Public Library, in making this their annual report, first desire to say that their experience of the last year reassures them that the expenditure for the erection of the new library building was wisely made. The community cannot fail to realize the facilities and accommodations which it furnishes; at the same time they confess that their duties have become in a great measure thereby more enjoyable, if not better performed.

The amount expended for all purposes during the year will appear in the City Treasurer's statement appended hereto.

The number of books purchased in 1886, according to the report of the librarian, is 1,012. The whole number of books now in the library is 13,146.

It may be interesting to know the growth and use of the Public Library since its establishment. The following tables gleaned from the annual reports will furnish this information:—

		Ye	ar.			Number in Library.	Books taken out.
1873 .						3,907	24,693
1874 .						4,730	Not reported.
1875.						5,301	39,025
1876.						5,752	46,800
1877.						6,696	57,862
1878 .						7,441	61,076
1879 .						7,814	64,022
1880 .						8,506	67,895
1881 .						9,035	67,649
1882 .						9,766	67,673
1883 .						10,574	70,531
1884 .						11,197	72,591
1885 .						12,134	65,450*
1886.						13,146	77,610

^{*} In ten months.

For further information, attention is invited to the librarian's report.

Much care has been taken in studying and supplying such departments as were found deficient, and chiefly in the choice of books of a solid and standard character. Books of reference relating to art, scientific subjects, manufactures, trades, and mechanics have been furnished, resulting in a most valuable acquisition to the library. Unusual opportunities are now offered to those who may desire to investigate any special subject in the reference room, which will be found both a pleasant and profitable place of resort.

Not a few purchases have been made in compliance with requests of individuals whose judgment the Trustees have good reason to respect. It has been the policy of the Trustees to encourage the patrons of the library to make known their wishes, and to recommend such works as they may deem desirable to possess. The difficulty in selecting books, especially new publications, arises in a great measure from the difficulty of knowing the merits of an author without a personal perusal. It will be readily seen that a multiplicity of books renders this duty arduous. Any assistance, therefore, that can be rendered by those who have a personal knowledge is most welcome. It is not always safe to rely upon newspaper notices or criticisms, or the commendations of publishers. Nor can it be deemed advisable to rely too much on experiments or mere hearsay.

The aim should always be to provide what may be regarded the "best reading." To accomplish this may be quite feasible, if standard works of known value are only to be selected; but in dealing with the current literature of the day, an immense field must be explored, and hence the task becomes the more onerous.

The Trustees would briefly again invite a further consideration of the question how the Public Library can be made more serviceable and beneficial to the community, especially to the young, who, more than others, are its active patrons. The materials are all here with which to work.

Much might be said in the way of suggestion, as to what course a reader or student should pursue in order that he may make the most advantageous use of books, and in the adoption of some systematic course of reading. We leave the subject, however, for parents and teachers to consider.

Attention is respectfully invited to the condition of the grounds about the library building. It seems sadly out of place that the elegant structure, which has been erected at so much outlay, should not have its surroundings more in consonance with its character. What might have been made an attractive lawn with the adornment of a few flowers, has thus far been permitted to become overgrown with unsightly weeds.

To avoid a continuance of such a condition of things, the Trustees have taken the initiative of preparing the soil, so that in the coming season it may be in readiness for further improvements.

In closing, the Trustees take pleasure in giving their testimony to the fidelity and zeal with which the librarian and her assistants have discharged their duties.

CHAS. S. LINCOLN, Chairman.

DEC. 31, 1886.

LIBRARIAN'S REPORT.

The fourteenth year of our library work finds us in a condition to warrant the expenditure of increased appropriations, as larger means of usefulness are constantly presenting themselves. Books of more scientific and solid character are called for and more and more appreciated, while many do not yet know of the treasures contained in our collection, which they have but to ask for in order to receive.

During the past year many choice books have been placed in the reference department, such as

North American Sylva, 2 vols.
Standard Natural History, 6 vols.
Holbein's Portraits.
Ferns of North America, 2 vols.
The Earth and its Inhabitants, 10 vols.
Costumes of the Clans, 2 vols.
Baronial Halls of England.
National Costumes of Germany.

And also for general distribution the most desirable works on the labor question, electricity, science, and the best in books of travel, biography, and fiction.

We are indebted to those of our constant readers who suggest those works that are most useful in their several occupations, and find them generally excellent judges of what is most needed. Who knows so well as the workman himself what tools he can best use; and if we can only supply the needed tools for our young workmen, what monuments of fame may not be wrought by builders here!

Until recently we have had only books of moderate cost in unpretending bindings; now we have accommodation for choicer books, whose illustrations on subjects in which our people are interested many would be glad to see. We have never been able to purchase a set of "Audubon's Birds," nor until this present year any

volumes of colored engravings or books in which the costumes of the past could be shown to those curious to see, or desirous to copy them. Our books, when purchased, go into immediate circulation, and their well-worn condition shows their constant use. Three books have been given, and the wonder is that more have not been donated. What more fitting place to bestow a well-read book than the Public Library, where hundreds can have the benefit of it, and the giver have the satisfaction of knowing that a good selection has been made for the reading of others?

I find that in at least one library the gifts have sometimes outnumbered the purchases.

A new registration was commenced in January, 1885, since which time 5,415 names have been entered and cards delivered.

During the year, 77,510 books have been delivered, 8,687 books covered, and 2,000 postal cards sent for books overdue. We have had, including periodicals, 407 volumes bound. These can seldom be bound a second time; 145 books have been worn out and withdrawn, and, where it was possible, replaced.

The use of reference books has nearly doubled; the number recorded last year being 642, and this year 1,200.

The following table shows the percentage of books taken in the various departments:—

Fiction, including juvenile	•				71
History and travel .	•		•		9
Essays and science .		•	•	•	8
Periodicals and drama	•	•			6
Biography	•	•			4
Poetry					2

The number of books in the library is 13,146, and at the annual examination none were missing.

HARRIET A. ADAMS, Librarian.

DEC. 31, 1886.

FINANCIAL STATEMENT OF CITY TREASURER.

				Cr.						
Balance from	1885		•						\$402	60
Appropriation	1	• .	•						2,500	00
Transferred fr	om in	teres	t accc	ount		•			409	73
Dog licenses	•							•	1,728	54
Fines .	•	•	•	•					274	69
Catalogues	•	•	•	•		•		•	36	60
City of Bosto	n, dis	scount	t on w	ater l	oill				1	20
							,			_
									\$5.353	36
				Dr.						
Salar.es .						. \$	1,537	17		
Rooks .				•			2,325	03		
Printing and	statio	nery	•				189	32		
Catalogues	•					•	128	51		
Binding .	•			•	•	•	139	19		
Newspapers						•	12	00		
Furniture							157	80		
Gas governor	•	•	•	. "	•	•	60	00		
Gas .	•	•	•	•	•	•	173	91		
Fuel .	•	• .		•	•	•	171	4.5		
Water .		•	•		•	•	20	0.0		
Repairs .	•			•			209	23		
Labor .	•	•			•		130	00		
Expressing			•		•	•	39	60		
Incidentals	•	•	٠.				60	15	AF 050	0.0
									\$5,353	36

REPORT

OF THE

COMMITTEE ON HIGHWAYS.

IN BOARD OF ALDERMEN, Jan. 1, 1887.

Accepted, and referred to the next city council, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

IN COMMON COUNCIL, Jan. 1, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

IN COMMITTEE ON HIGHWAYS, Dec. 31, 1886.

To the City Council of Somerville:

The following is the final report of the committee on highways for the year 1886:—

HIGHWAYS ACCOUNT.

CREDIT.

Appropriation:—		
Amount first appropriated\$32,000	00	
Transfer from interest account . 200	00	
		\$32,200 00
Receipts and credits:—		
For labor and materials furnished prior		
to Jan. 1, 1886, the bills for which		
remained uncollected that day . \$148	88	
pasturage on Walnut Hill lot, Broad-		
way, in 1885	00	
rent of dwellings at City		
Farm \$136 00		
less repairs, insurance,		
and water rates . 134 14		
1	86	
excess of charges for materials over		
the cost 249	12	
gross earnings of city teams,		
at \$1.40 per day for		
each horse \$6,052 20		
less cost of maintenance		
as hereinafter specified, 5,092 05		
	15	
-		1,365 01
Value of materials on hand Jan. 1, 1886	•	9,057 41
Value of property on band Jan. 1, 1886		1,026 52
(D) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		* * * * * * * * * * * * * * * * * * *
Total credit	•	\$43,648 94
15		

DEBIT.

DEBIT.				
Expenditures: —				
For construction of Dartmouth Street,				
from Broadway to Evergreen Ave-				
nue (laid out in 1885)			\$175	51
construction of Park Avenue, from				
Elm Street to Wallace Street (laid				
out in 1885)			271	85
laying out of Berkeley Street, from				
School Street to Central Street				
(recording release and advertising				
notice)			13	95
laying out of Dartmouth Street, from				
Medford Street to Evergreen Ave-				
nue (recording release and advertis-				
ing notice)			13	25
laying out of Grove Street, from	•	·	10	20
Elm Street to Lexington and Ar-				
lington Railroad (recording re-				
lease and advertising notice) .			12	50
laying out of Irving Street, from Hol-	•	•	12	90
land Street to Broadway (record-				
· ·			10	e s
ing release and advertising notice)	•	•	12	00
laying out of Preston Street, from				
School Street to Summer Street				
(recording release and advertising			10	F 0
notice)	•	•	12	
street crossings	•	•	1,166	
street signs	•	•	10	30
clearing and repairing streets after				
the laying of horse railroad tracks:				
Broadway, from Franklin Street				
to Autumn Street	\$94	68		
Elm and Holland Streets from				
Russell Street to Elmwood				
Street	807	32		
Washington Street, from Union				
Square to Mystic Street .	145	79	1.045	5 0
* 1			1,047	79
Amount carried forward			\$2,737	15
			# = ,······	

Amount brought forward For repairs and improvements of streets and paving of gutters in connec-	٠	. \$2,737 15
tion with the setting of edgestones: Benedict Street, both sides, from Austin Street to Benedict		
Avenue, paving Broadway, at I. L. Russell's,	\$119	75
corner North Street, paving . Dartmouth Street, west side,	69 9	90
from Broadway to Evergreen		
Avenue, paving	249	96
Dartmouth Street, at F. Fuller's,		
east side, paving	24	00
Dover Street, west side, from		
Davis Square to Cambridge		
line, paving	317	33
Elm Street, at D. W. Lowell's, cor-		
ner Morrison Street, paving.	33 \$	32
Gilman Street, both sides, near		
Aldrich Street, extension west-	105	30
wardly, paving	105	59
Highland Avenue, at J. Medina's	20	40
block, paving	30	1 0
Maple Street, south side, near Medford Street, paving.	57	2 %
Medford Street, east side, from	01	50
Somerville Avenue to Wash-		
ington Street, paving	481	08
Medford and Shawmut Streets, at	101	
J. A. Talpey's corner, paving,	16	48
Morrison Street, both sides, from		
Elm Street to Grove Street,		
paving	419	56
repairs	308	06
North Street, at I. L. Russell's,		
corner Broadway, paving .	68	56
Park Avenue, both sides, from		

Amounts brought forward	\$2,301	45	\$2,737	15
Elm Street to Wallace Street.				
paving	258	76		
Spring Street, west side, from			·	
Somerville Avenue to Pitman				
Street, paving	58	12		
Shawmut Street, both sides, from				
Washington Street to Medford				
Street, paving	216	64		
repairs	79	73		
Summit Avenue both sides,				
from Walnut Street to Vinal				
Avenue, paving	385	82		
repairs	282	88		
Tufts Street. from Washington				
Street to Cross Street, paving				
east side	369	10		
repairs	408	62		
~			4,361	12
For reconstructing brick sidewalks and				
gutters west side of Cedar Street,			27 00	0 =
from Elm Street to Summer Street	•	•	789	07
repairing Cedar Street from Elm			400	4.0
Street to Summer Street	•	•	429	46
reconstructing brick sidewalk and gut				
ter east side of Laurel Street, from			110	0.0
land of Tufts to land of Cutter .	•	•	116	99
ordinary repairs of streets:—				
Bond Street, from Broadway to	0.0	0.77		
Heath Street	89	67		
Broadway, north side, from Lin-				
coln Street to Wheatland	0.50	4.0		
Street	859	40		
Broadway, south side, from Boston Line to Autumn Street.	9.00	90		
·	368	32		
Broadway and Marshall Street, from Dartmouth Street to Oak-				
land Avenue	729	Q1		
	123	01		
Cross Street, from Medford Street to railroad bridge .	77	48		
bilect to fairfoad bridge .		10		
Amounts carried forward	\$2,124	74	\$8,433	79

Amounts carried forward	\$2,124 7	\$8,433 79
Elm Street, from Somerville	·	_
Avenue to Davis Square .	2,400 88	3
Franklin and Perkins Streets,		
from Pearl Street to Boston		_
Line	585 5	2
Highland Avenue, from Cherry		
Street to Willow Avenue .	461 2'	7
Highland Avenue, from Davis		
Square to Grove Street .	437 0	5
Lowell Street, from Wilton		
Street to Vernon Street .	386 74	Į.
Medford Street, from Highland		
Avenue to Central Square .	458 8	1
Mt. Vernon Street, from Wash-	202 2	_
ington Street to George Street,	686 68	
Myrtle Street, from Washington	410 2	
Street to top of hill	410 28	5
Mystic Avenue, from Chauncey	1 500 0	4
Avenue to Medford Line .	1,588 8	t
Walnut Street, from Broadway to Bonair Street	294 4	2
Willow Avenue, from Highland	201 1	,
Avenue to Lexington and Ar-		
lington Railroad	245 1	0
general repairs		
general repairs		17,055 00
For repairs of stone paving	•	. 294 45
of brick sidewalks		. 695 12
resetting edgestones, Davis Square .	•	. 66 79
cost to city of sidewalks, the bricks	and edge	-
stones for which were furnishe	d by the	е
abutters		
clearing and repairing streets after th		
tion of sewers and catch-basins .		
removing snow and ice, and care		
sidewalks	•	. 1,451 69
cleaning streets	•	. 2,168 36
one half cost maintaining Middlese		
bridge for the year 1885, the other		
paid by the town of Medford .		
Amount carried forward	•	. \$30,882 02

Amount brought forward	\$30,882	02
For setting trees furnished by citizens	63	35
trimming trees	18	00
drinking fountain (for horses) in Union Square,		
new fountain and repairing old one	178	90
repairing W. C. T. U. fountain in Union Square,		
and ice for same	31	50
tax on Waltham gravel land	114	7 5
tax on Wakefield gravel land \$25 26		
less received for gravel sold 15 20		
•	10	
tax on Winchester gravel land	10	95
repairing tools	339	70
salary of superintendent	1,500	
board of superintendent's horses	417	17
rent of superintendent's telephone	41	60
books, stationery, and printing	46	50
sundry small expenses	20	05
private work, etc., the bills for which remain		
uncollected	195	71
Value of tools, etc. Jan. 1, 1886 \$372 21		
added during the year 230 72		
Total		
value of same, Dec. 31, 1886 372 50		
Depreciation	230	4 3
Value of materials on hand, Dec. 31, 1886	1,226	15
Value of property on hand, Dec. 31, 1886:—		
horses \$4,125 00		
carts and implements used with		
horses 1,881 25		
harnesses and horse clothing		
stable utensils and property 167 50		
stone crusher, engine, and fittings . 1,317 25		
tools, tool chests, and tool house . 372 50		
	8,240	75
Total debit	\$43,567	59
Balance unexpended	\$81	35
area .		

The earnings and expenses of the city teams have lows:—	been as fol-
Earnings, at \$1.40 per day for each horse	\$6,052 20
Expenses: —	
For grain and feed	\$1,392 18
hay and straw	472 09
shoeing	382 0 5
doctoring and medicine	120 68
repairs of carts and implements used with horses,	309 17
harnesses and horse clothing	116 31
stable expenses (including pay of stable-man)	
and repairs of stables	1,283 69
Value of carts and implements used with horses, Jan.	
1, 1886 \$2,124 50	
added during the year . \$60 00	
insurance 15 00	
\$75 00	
less remains of burnt	
wagon sold 5 00	
 70 00	
Total	
value of same, Dec. 31, 1886 1,881 25	
Depreciation	313 25
Value of harnesses and horse clothing,	
Jan. 1, 1886	
added during the year 28 60	
. Total \$535 35	
value of same, Dec. 31, 1886 377 25	
Depreciation	158 10
Value of horses (19), Jan. 1, 1886 \$4,600 00	
insurance	
Total	
Amount carried forward	\$4,547 52

Amount brought forward Value of horses (16), Dec. 31, 1886 .	\$4,125 00	\$4,547 52
Depreciation (including three Value of stable utensils and property, Jan. 1, 1886 added during the year	that died), \$192 50 9 53	510 00
Total	\$202 03 167 50	
Depreciation		34 53
Total expense		\$5,092 05
Excess of earnings, as h stated, under the heading and credits		\$960 15
The charges for crushed stone, and the been as follows:—	cost of the s	ame, have
Charges:—	w w	
For 10,029 loads used (price at crushe load)	_	\$7,521 75
500 loads on hand, Dec. 31, 1886,		375 00
Total of charges		\$7,896 75
Cost		-
Cost: — For 600 loads of crushed stone on ha 1886, at \$1.00		\$600 00
9,713 loads of ledge and field stone d		
crusher, at 45 cents		4,370 85
labor and teaming at crusher, include engineer	ing pay or	2,378 39
engineer		130 86
repairs of crusher and engine		34 60
fuel		199 82
water		28 57
oil		33 10
- boiler insurance	•	15 00
Amount carried forward		\$7,791 19

Amount brought forward .	•	•	•	•	\$7,791 19
Value of crusher, engine, and	fittin	gs,			
Jan. 1, 1886		. \$:	1,261	45	
added during the year .			216	72	
					-
		\$.	1,478		
less old fittings sold	•	•	65	54	
		-	1 410	69	
value of same Dec 21 1006			1,412		
value of same Dec. 31, 1886	•	• .	1,317	25	
Depreciation .		•			95 38
Total cost	•	•		•	\$7,886 57
Excess of charges of	ver co	st	•	•	\$10 18
The charges for Holland Street	ledge	ston	e and	the	cost of the
same have been as follows:		Ston	e and	ше	cost of the
Charges:—	_				
	a . 12	J			
For 9,216 loads of ledge stone				20	
at crusher, at 45 cents.	•	. 5	1,14/	20	
			<i>'</i>		
1,797 loads of ballast for	stree	ets,	·		
price at ledge, 10 cents	•		179		
	•		·		
price at ledge, 10 cents	arried	by	·	70	
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents	arried	by	179	70	64.414.20
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges	arried	by	179	70	\$4.414 80
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:—	arried	by	179 87	70	\$4.414 80
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming .	arried	by	179 87	70 90 00	\$4.414 80
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:—	arried	by	179 87	70 90 00	\$4.414 80
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming .	arried	by	179 87	70 90 00	\$4.414 80 4,404 41
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost	rried s .	by	179 87	70 90 00	4,404 41
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming powder and fuse .	rried s .	by	179 87	70 90 00	
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges	arried s .	. by	179 87 - 3,946 458	70 90 00 41	\$10 39
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges Labor and materials have been	rried s	by	179 87 3,946 458 to oth	70 90 00 41	4,404 41 \$10 39 ccounts, and
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges Labor and materials have been to private parties, and the Treasu	rried s	by	179 87 3,946 458 to oth	70 90 00 41	4,404 41 \$10 39 ccounts, and
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges Labor and materials have been	rried s	by	179 87 3,946 458 to oth	70 90 00 41	4,404 41 \$10 39 ccounts, and
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges Labor and materials have been to private parties, and the Treasu	furni	by	179 87 3,946 458 to oth	70 90 00 41	4,404 41 \$10 39 ccounts, and
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges Labor and materials have been to private parties, and the Treasus same, as follows:—	furni	by	179 87 3,946 458 to oth	70 90 00 41	\$10 39 ccounts, and ment for the
price at ledge, 10 cents 293 loads of ledge stone qua the purchasers, at 30 cents Total of charges Cost:— For labor and teaming . powder and fuse Total cost Excess of charges Labor and materials have been to private parties, and the Trease same, as follows:— Broadway Park Maintenance	furni	by	179 87 3,946 458 to oth	70 90 00 41	4,404 41 \$10 39 ccounts, and ment for the \$847 47

Amount brought forward	\$853 47 87 17 64 1 50 829 41 680 84
Total	\$2,383 73
SIDEWALKS ACCOUNT.	
Credit.	
Appropriation	\$4,000 00
Debit. Expenditures: —	
For sixteen sidewalks, as per accompanying schedule \$7,196 64 less assessments 3,598 32	
Net cost to city \$3,598 32 Advertising notices of hearings for sidewalks in Oliver Street, Quincy Street, Elm Street and Warren Ave-	
nue (not built) \$40 20 Advertising for proposals for edgestones 5 50 Printing blank orders for	
hearings 8 00	
Less cost of advertising ${$53}$	
Spring Street and Morrison Street sidewalks paid in 1885 (sidewalks constructed this year) 20 40 33 30	
Net expenditure	3,631 62
Balance unexpended	\$368 38

BROADWAY PARK MAINTENANCE ACCOUNT.

, Ст	REDIT.				
Appropriation			\$1,000	00	
Receipts for hay sold				05	
Value of property (tools, etc.)					
Jan. 1, 1886			269	47	
Total credit .	•		•		\$1,279 52
D	EBIT.				
Expenses: —					
For labor and teaming .			\$786	47	
dressing			61	00	
repairing tools and property			28	40	
iron and hardware.			7	61	
incidentals		٠	3	11	
bedding plants			30	00	
lighting lamps			11	00	
raising and lowering flag			2	00	
Value of property on hand Dec.	31, 18	386			
(including purchases during					
•\$2.70)			209	85	
Depreciation in value of property					
Total debit	•	۰	•	•	1,201 76
Balance unexpende	ed .	•		•	\$77 76

NEW STREETS AND SIDEWALKS.

Five streets have been accepted this year, as stated in the accompanying table, but no work has been done upon either of them.

Of the five streets accepted last year, two have been constructed this year.— Dartmouth Street from Broadway to Evergreen Avenue, and Park Avenue from Elm Street to Wallace Street,— and gravel sidewalks, with edgestones, have been constructed on both sides of the last named and on the westerly side of the other.

The particulars of streets constructed and improved, and of sidewalks built, are contained in tables herewith presented.

An unusually large number of sidewalks have been built this year, and have formed the basis for substantial improvements in all the streets where they are located, as it is the invariable custom to pave the gutters appurtenant to the sidewalks, and to grade and repair the street to correspond with the uniform grade thus established.

We know of no expenditure that gives better satisfaction to the public, and at the same time proves more economical for the city, than that paid for sidewalks and the accompanying improvements, and we hope as many sidewalks will be built every year as the city can afford.

HORSE RAILROADS.

Elm and Holland Streets, between Russell Street and the City Ledge, have been in bad condition for some years, because the tracks of the Cambridge Railroad Company were laid too low. We therefore requested the company to bring its rails up to a proper grade, and the request was promptly complied with. A great improvement in these streets has thus been made.

Late in the year the Boston Consolidated Street Railway Company obtained locations for additional tracks in Broadway from Franklin Street to Temple Street, and in Washington Street from Tufts Street to Union Square. The tracks were laid in Broadway from Franklin Street to Autumn Street, and in Washington Street from Union Square to Mystic Street, when the work was stopped by bad weather.

PAVING SOMERVILLE AVENUE.

We renew the recommendation of our immediate predecessors, that measures be taken for paving Somerville Avenue, and suggest that a beginning be made by paving Union Square. The travel is so great over this thoroughfare that the macadam placed upon it lasts but a very short time.

GRAVEL.

The highway committees of previous years have been more or less hampered for the want of good gravel, and this committee determined, if possible, to open the city's gravel bank at Waltham, which we knew contained gravel of excellent quality, and arrange for the transportation of the material to Somerville. Accordingly an agreement was obtained from the Fitchburg Railroad Company to put in a switch and lay a track to the bank at the company's expense, and to deliver five thousand yards, or more, of gravel on the line of the road in Somerville for thirty cents per yard; the loading to be done by the city. In this way we have obtained the gravel required for the purposes of the department during the season.

Of course, the work of opening the bank and removing the refuse earth has made the gravel used this year cost rather high, but we believe it can be delivered on our streets hereafter at a moderate cost.

SCHEDULES.

The following schedules give additional particulars of the work of the department during the year.

STREETS ACCEPTED IN 1886.

Name.	From	То	Length in feet.
Berkeley. Dartmouth. Grove. Irving. Preston.	School St. Medford St. Elm St. Holland St. School St.	Central St. Evergreen Ave. Middlesex Cen. R. R. Broadway. Summer St.	1,361.8 737.0 585.0 1,.75.0 839.1
Total			. 4,697.9

STREETS IMPROVED.

Name.	From	То	Improvement.	Feet.
Bond	Broadway. Boston Line. Dartmouth Lincoln. Elm Medford Evergreen Ave. Cambridge Line, Davis Square Russell Pearl Cherry Davis Square Arlington R. R., Wilton Broadway Highland Ave. Elm Washington Washington Vinal Avenue Washington Broadway Washington Broadway Washington Highland Ave.	Heath. Autumn. Marshall Wheatland Summer Railroad Bridge, Broadway Davis Square Craigie Davis Square Perkins Willow Ave. Grove Elmwood Vernon. Oakland Ave. Central Square Grove George To top of hill Medford Line Boston Line Cross Walnut Cross Bonair Arlington R. R.	Grad'g and macadamizing, Re-macadamizing "" Grad'g and re-macad'izing, Re-macadamizing Grad'g and re-macad'izing, Re-macadamizing Filling and macadamizing, Re-macadamizing "" Filling and macadamizing, Macadamizing "" Grad'g and macadamizing, Macadamizing "" Grad'g and re-macad'izing, Re-macadamizing "" Grad'g and macadamizing, Re-macadamizing Re-macadamizing Grad'g and macadamizing, Re-macadamizing Re-macadamizing Grad'g and macadamizing, Re-macadamizing Re-macadamizing Re-macadamizing Re-macadamizing	300 2,800 2,700 1,000 500 650 850 1,700 1,400 250 1,000 650 3,700 1,350 450 950 450 450 950 450 450 950 450 450 450 450 450 450 450 450 450 4
Total			• • • • • • • • • • • •	31,550

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS AND LABOR WERE FURNISHED BY THE CITY, AND ONE HALF THE COST WAS ASSESSED ON THE ABUTTING ESTATES.

Street.	From	То	Feet of Edgestone.	Yards of Brick.	Cost.
B'dway, northeast side, Dartmouth, west side. Davis Sq., south side. Dover, northwest side. Elm, east side. Gilman, both sides. Medford, east side. Morrison, both sides. Morrison, south side. North, northwest side. Park Av., both sides. Shawmut, east side. Spring, west side. Summit Av., north side, Summit Av., south side, Tufts, northeast side.	North St Broadway Elm St Davis Sq	Elm St	116.2 710.4 38.5 936.1 341.5 877.0 1098.4 114.5 904.6 531.1 173.2 548.5 540.5 987.6	112.5 268.2 600.9 80.5 209.2 354.3 76.9	\$194 60 491 40 332 01 1,116 74 74 22 464 50 579 46 629 57 301 72 140 50 517 18 422 56 118 66 400 83 804 30 608 39
Totals			7918.1	2122.3	\$7,196 64

SIDEWALKS CONSTRUCTED WHERE EDGESTONES AND BRICKS WERE FURNISHED BY THE ABUTTERS.

For			Street				Length of Edgestones.	Yards of Brick.
J. W. Rand C. B. Sanborn	t .	Highland Maple Benedict Austin Medford	s Auer th e	inue inue inue inue inue inue inue inue	Shav	W-	77.7 60.6 46.6 25.6 89.7 62.4 31.3 86.9 	62.6 25.7 16.9 60.1 34.9
Totals	• •	• •	•	•		•	510.9	200.2

DRIVEWAYS CONSTRUCTED (AT EXPENSE OF ABUTTERS).

For	Street.
Silas L. Cummings.	Elm.
Edward Glines.	Highland Avenue.
H. S. Pond.	Vinal Avenue.
Marion Spry.	Somerville Avenue.
Quincy A. Vinal, Trustee.	Adams Street.

DRIVEWAYS DISCONTINUED (AT EXPENSE OF ABUTTERS).

City (Miscellaneous Account).	At City Hall.

CROSSINGS CONSTRUCTED.

Austin Street, across end of Benedict Street.

Broadway, from westerly side of Rush Street.

" easterly side of Glen Street.

Central Street, across the end of Willoughby Street.

Dover Street, near horse-car stables.

" westerly side across end of court.

Elm Street, across the end of Park Avenue.

" Morrison Street.

" from northerly side of Park Avenue.

Gilman Street, northerly side across Aldrich Street.

" in line with easterly side of Aldrich Street.

Holland Street, from easterly side of Wallace Street.

Park Avenue, across the end of Chandler Street.

School Street, in line with northerly side of Evergreen Avenue.

Tufts Street, across end of Glen Street.

Washington Street, across the end of Charles Street.

" Mystic Street.

" Tufts Street.

" from westerly side of Franklin Street.

CULVERTS CONSTRUCTED.

Cambria Street, iron, under northerly sidewalk, 1.
Central Street, pipe, easterly side at railroad bridge, 1.
School Street, wooden, easterly side at railroad bridge, 1.
Walnut Street, wooden, easterly side at railroad bridge, 1.
Willow Avenue, wooden, westerly side at railroad crossing, 1.

DANGER SIGNS ERECTED.

Allen Street, at Somerville Avenue.

Avon "School Street.

Bartlett " " Washington Street.

Boston " Greenville "

" Washington "

Bow Street Place, at Bow "Cambria Street, "Central"

Dartmouth " south side Evergreen Avenue.

. 1

Emerson Street, at Everett Street.

Essex	66	66 7	I edford	Stro	ρt					
Everett	6.6		rick Ya							
Everen	6.6		Cmerson							
Greenville	66		oston S							
Hawkins			oston S omervill							
Hawkins	66									
	66		Vashing edar	ton	street.					
Hudson	66				66					
	_		entral	L	66					
Kingman			ashingt							
Linden St			omervill							
Maple Av			larshall	Stre	et.					
Montrose	Street,		chool							
		,	ycamore	66						
Munroe	66		alnut							
Mystic	66		enedict	66						
66	66		ystic A							
**			omervill							
New Chur		· ·								
Oxford	66		Centra							
66	6.6		School		66					
Pembroke	6.6		Centra		66					
			Sycam							
Richdale A		′	Schoo		66					
Sycamore	·		_		Avenue.					
66	66		Medfo							
Thurston	66	6	South	side	Medford S	Street.				
Wesley Pa	ırk	4	' Bow S	Stree	et.					
Willoughb	y Stree	et, '	' Centra	al St	reet.					
66	66	4	' Sycan	ore	Street.					
		SI	REET	SIGN	NS ERECTI	ED.				
Bonair Str	reet .			1	Mystic 2	Avenu	e.		•	3
Bond				1	Oxford S				•	1
Broadway				2	Pearl	66				1
Church Str				1	Quincy	46				1
Craigie	"			1	School	66	•			1
Cross	"			1	Thurston	1 "		•		1

Tufts

Middlesex Avenue

EDGESTONES AND PAVINGS.

Lineal feet of edgestones set (including 1,210 feet reset), 9,600; square yards of brick paving laid (including 1,180 yards relaid), 3,500; square yards of stone paving laid (including 585 yards relaid), 3,400.

For the committee,

IRVING L. RUSSELL, Chairman. GEO. I. VINCENT, Clerk.

REPORT

OF THE

COMMITTEE ON SEWERS.

IN BOARD OF ALDERMEN, Jan. 1, 1887.

Accepted, and referred to the next city council, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

In Common Council, Jan. 1, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

IN COMMITTEE ON SEWERS, Dec. 31, 1886.

To the Board of Aldermen of Somerville:

The following is respectfully submitted as the final report of this committee for the year ending this day:—

SEWERS ACCOUNT.

CREDIT.

Appropriation	•	٠	•	•	\$8,000 00
Receipts and credits: —					
For catch-basin curbs in sides	valks,				
received credit from S	idewa	lks			
account	•	•	\$17	95	
fees for entering Elm Street	sewer		64	00	
fee for drainage of Asylum l	ouildir	ıgs			
into Fitchburg Street sewe	r .	•	50	00	
labor and materials furnished	in 188	35,			
the bill for which remaine	d unc	ol-			
lected Jan. 1, 1886 .	•	•	10	68	
					142 63
Value of materials on hand Jan.	1, 188	6.	•	•	241 38
Value of tools and property, Jan.	1, 188	6.	•	•	290 15
				ı	
Total credit .	•	•			\$8,674 16

DEBIT.

Expenditures: —		
For sixteen sewers, as per accom-		
panying table \$11,597 11		
less assessments 8,736 07		
cost to city	\$2,861	04
nine catch-basins (average $\$65.85\frac{1}{3}$)	592	68
five ninths cost of removing deposit from mouth		
of Bridge Street sewer	1,402	39
repairing sewers and drains	24	55
flushing sewers and filling catch-basins with water	300	94
cleaning sewers	140	88
examining sewers	36	50
repairing catch-basins	146	02
changing lines and grades of catch-basins .	41	78
cleaning catch-basins	905	33
clearing mouth of catch-basins	145	37
examining catch-basins	2	62
changing lines and grades of man-holes	107	10
cleaning ditches	28	88
inspecting sewers built by abutters in Richdale		
Avenue, Essex, Preston, Dartmouth Streets,		
Eastman Place, Stickney, Chandler, Eglan-		
tine, Runey and Virginia Streets	223	75
books, stationery, and printing	3	40
repairing tools and property	48	53
sundry small expenses	50	23
arranging tools and property	3	32
cleaning man-holes	3	00
one half cost of private drain School and Medford		
Streets, because of improper location of water		
main in Medford Street	40	00
balance due contractors on sewers laid in 1885.	390	56
private work, the bills for which remain uncol-		
lected	33	42
		_
Amount carried forward	\$7,532	29

Amount brought forward		\$7,532	29
Depreciation in value of materials	•	33	56
" " tools and property .		76	26
Value of materials on hand, Dec. 31, 1886 .		275	74
Value of tools and property on hand, Dec. 31, 18	86		
(including purchases during the year, \$57.45)	•	246	80
Total debit	•	\$8,164	65
Balance unexpended		\$509	51
	:		
Work has also been done, for which credit or pa	vmer	nt has be	een
received, as follows:—	5		

The sewers built in Wilton, Lowell, Appleton, Lawrence, Hinckley, and Vernon Streets and Fiske Avenue, a total length of 4,564.2 feet, were designed and constructed for house drainage only, the topography of this section being such that the surface water is satisfactorily removed by means of a natural watercourse.

These sewers empty into the Murdock Street sewer, through a siphon of eight-inch iron pipe laid under the Lowell Railroad.

Herewith is presented a list, made by the engineer, of sewers built during the year.

SEWERS BUILT IN 1886.

Street.	From	То	Length in Feet.	Total Cost.	Assess- ment.	Cost to City.
Bradf'd Av.	School St	Southeasterly	149.0	\$177 97	\$122 00	\$55 97
Cross	Oliver St	Flint St	221.0 44.5)	425 99	239 85	186 14
Dover Orchard	End old sewer, Dover St	Near Meacham St.	218.5	234 10	227 92	6 18
Fisk Ave.	Hinckley St.	" Lowell St	463.7	436 05	41 3 49	22 56
Flint	End old sewer,	Glen St	127.0 }	205 98	157 05	
Glen	Flint St	Northeasterly	114.0 }			48 93
Howe	Marshall St	Near School St	321.5	573 {1	414 47	159 04
Kingman Ct		Fitchburg R. R.	349.0	360 37	322 46	37 91
Lowell	Appleton St Wilton St	Medford St	392.5 323.4)	324 15	306 62	17 53
Vernon	Lowell St	Vernon St Jenny Lind Ave	619 1	1,467 50	1,197 59	269 91
vernon	Jenny Lind av.	Southeasterly	348.5	1,301 00	1,151 05	209 91
Orchard	Russell St	Near Chester St.	407.0	352 18	345 02	7 16
Pembroke.	Central St	" Sycamore St.,	354,5	849 23	451 36	397 87
Priv. Lands	Murdock St.	Lawrence St	436.5 ๅ			
Wilton	Lawrence St	Lowell St	508 6			
Lowell	Wilton St	Appleton St	435.6	0.400.00		
Appleton .	Lowell St	Lawrence St	499.3 }	3,496 23	2,139 91	1,356 32
Lawrence.	Appleton St Lawrence St	Hinckley St Fisk Ave	$\begin{array}{c c} 218.0 \\ 93.7 \end{array}$			
Hinckley .	Fisk Ave.	Near Broadway	225.3			
Summer.	School St	Laurel St	985.5	1,658 01	1,377 12	280 89
Thurston .	Evergreen Av.,	Near Broadway .	521.0	560 83	552 02	8 81
Tufts	Glen St	Northwesterly	199.0	227 81	224 00	3 81
Tyler	Vine St	Tower Ct	158.0 }	247 20	245 19	2 01
Tower Ct	Tyler St	Northeasterly	165.7 \$	211 20	240 10	2 01
Total .			8,899.4	\$11,597 11	\$8,736 07	\$2,861 04

For the committee,

DANIEL C. STILLSON, Chairman. GEO. I. VINCENT, Clerk.

REPORT

OF THE

CITY ENGINEER.

IN BOARD OF ALDERMEN, Jan. 26, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

In Common Council, Jan. 27, 1887.

Concurred ln.

DOUGLAS FRAZAR, Clerk.

City Engineer's Office, Jan. 24, 1887.

To his Honor the Mayor and City Council:

Gentlemen, — In accordance with the provision of the city ordinances in relation to city engineering, I herewith submit my annual report for the year 1886.

SEWERS.

Eight thousand eight hundred and ninety-nine and four tenths feet of public sewers were built during the year, of which 985.5 feet were of brick, and 8,899.4 feet of pipe. In these sewers were built thirty-two man-holes.

Four thousand one hundred and sixty feet of pipe sewers have been built by private parties, under the direction of an inspector from this office.

The following table will show the size, length, cost, assessment, etc., of each sewer: —

TABULAR STATEMENT OF SEWERS BUILT IN 1886.

	Cost to City.	\$555 97 186 14 186 14 6 18 48 93 159 04 37 91 17 53 269 91 7 16 397 87 1,356 32
Cosr.	Assess- ment.	\$122 00 239 85 239 85 227 92 413 49 1157 05 346 62 1,197 59 345 02 451 86 2,139 91
0	Total Cost.	\$1777 97 425 99 425 99 524 10 524 10 524 15 52 86 37 524 15 52 18 849 23 849 23 849 23 5496 23
	Av. cost per foot.	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Average Cut.	8.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Length in feet.	302.4 149.0 149.0 149.0 142.8 142.8 142.8 142.8 190.5
	Man-holes.	LU : L : : : : : : : : : : : : : : : :
N.	Size in inches.	8 2 2 2 2 2 2 8 2 3 2 3
CONSTRUCTION.	Materials.	Akron pipe, """""""""""""""""""""""""""""""""""
	Built by	Maurice Buttimer, Stephen Buttimer, Chas. A. Mongan, Stephen Buttimer, Day labor, Linehan & O'Brien, Chas. A. Mongan, Richard Falvey, Chas. A. Mongan, Chas. Chas. A. Mongan, Chas. Chas. A. Mongan, Chas. Chas. A. Mongan, Chas. C
	To	Runey St., Southcasterly, near Broadway, Flint St., Northeasterly, Southwesterly, Southwesterly, Richdale Av., Lowell St., Richdale Av., Lowell St., Morthcasterly, Richdale Av., Fitchburg R. R., Morthcasterly, Fitchburg R. R., Medford St., Vernon St., Vernon St., Jemy Lind Av., Southwasterly, near Sycamore St., near Sycamore St., near Sycamore St., Lawrence St., Vinal's land, Lowell : t., Appleton St., Lawrence St., Lawrence St., Lawrence St., Lawrence St., Lawrence St., Kinal's land, Lawrence St., Lawrence St., Fire Av., Fire Av., Fire Av., Fire Av., Fire Av.,
Location.	From	Pearl St., School St., end of old sewer, Oliver St., near Beergreen Av. mar Evergreen Av. Highland Av., Highland Av., Hinckley St., Hinckley St., Hinckley St., Washington St., Walnington St., Vilton St., Vilton St., Jenny Lind Av., Russell St., Lowell St., Lawrence St., Fisk Av.,
	Name of Street.	Aldrich, Bradford Av., Chandler, Choose, Davimouth, Dover, Orchard, Eastman Pl., Essex, Fisk Av., Fisk Breston, S. J. R. R. L. Lo. eation, Vriiton, I.owell, Appicton, I.owell, Appict

	200 200 200 200 200 200 200 200 200 200	\$2,861 04	rock,
0 0	1,377 12 552 02 224 00 245 19	\$11,597 11 \$8,736 07 \$2,861 04	5 20.5 cubic yards of rock.
	1,658 01 257 81 227 81 247 20	\$11,597 11	5 20.5 cu
* *	* * * 1 68 1 108 1 114 0 76		2
6.3	10.0 2.0 10.0 10.0 10.0		of roc
26.5	30. 670.6 17. 985.5 35. 521.0 10. 199.0 9. 165.7 17. 393.7	8899.4	4 171.7 cubic yards of rock.
	17X24 3374 30 11 12 11 10 10		1.7 cu
10 %	222×222200	• •	417
Akron pipe, Akron and Portland nine	Akron pipe, Akron pipe, """ """ """ """ """ """ """ """ """	• •	ards of rock.
Paul Kelly, Stephen Buttimer, Akron and Postland nive	Maurice Buttimer. Akron pipe, Akron pipe, Kephen Buttimer, Kenn pipe, Kenn pipe, Kenn pipe, Kenn pipe, Kenn pipe, Kenn Kenn Kenn Kenn Kenn Kenn Kenn Ken	vato parties	3 42,5 cubic yards of rock.
Thurston St., near School St.,	Cross St., near School St., Laurel St., near Broadway, Northwesterly, Tower Ct., Northeasterly, Jasper St.	Total length of sewers built by city	2 52.3 cubic yards of rock. * Built by private parties.
Essex St.,	Aldrich St., Marshall St., School St., Evergreen Av., Glen St., Vine St., Tyler St.,	Total length of	
Richdale Av.,	Runey, Stickney, ⁶ Summer, Thurston, Tufts, Tylor, Tower Ct., Virginia,		¹ 25.7 cubic yards of rock. ⁶ 31 cubic yards of rock.

public sewers built in city Jan. 1, 1887 207,841.2 foet, or 39.4 miles.

Total length of sewers built by eity previous to Jan. 1, 1886 198,941.8 feet.

" during the year 1886 8,899.4 "

,,

"

99

9,

SEWERS IN WILTON, LOWELL, VERNON, AND OTHER STREETS.

The system of sewers built in Wilton, Lowell, Vernon, and other streets in the vicinity discharges into the Murdock Street sewer. The crossing of the Boston and Lowell Railroad is made with an eight-inch cast-iron siphon pipe, ninety and one tenth feet in length.

The length of the system built is 4,564.2 feet, and the total cost was \$5,723.93, of which \$4,057.61 was assessed on the abutting estates.

The sewer in Vernon Street was connected with the private sewers in Jenny Lind and Partridge Avenues, which formerly discharged into the ditch on the northerly side of the Boston and Lowell Railroad, thereby diverting the sewage from the ditch, the pollution of which has been the cause of a serious nuisance to the residents in the vicinity.

CRAIGIE BRIDGE OUTLET.

The city of Cambridge — this city refusing to join them — cleaned and dredged at the sewer outlet under Craigie Bridge, and this city paid five ninths of the cost, which amounted to \$1,402.37. The amount of deposit removed was 6,150 cuoic yards.

MAN-HOLES.

There are several miles of sewers in which there are no manholes, and therefore no opportunity to examine or flush them. I would therefore renew a former recommendation that a sufficient number of man-holes be built on these sewers as will give proper means for inspection and cleaning.

CATCH-BASINS.

Nine catch-basins were built at an average cost of \$65.85. The cost of cleaning catch-basins was \$905.33.

PRIVATE DRAINS.

Three hundred and twenty permits were issued for laying private drains, three hundred for new connections, and twenty for repairs. The drains have been located and properly recorded.

1,175.0

839.1

40

40

The Board of Aldermen licensed four persons as drain layers, and revoked one license. The present number of licensed drain layers is twenty-nine.

I would respectfully recommend that an inspector be employed, to be present when the drains are connected with the sewers, and to supervise the laying of all house drains.

STREETS.

The following table will show the streets accepted by the city council during the year: --

Name of Width Length From To Street. in feet. in feet. Berkeley School Street. . . . Central Street 40 1,361.8 Dartmouth . . Medford Street Evergreen Avenue Middlesex Central Railroad -40 737.0 Elm Street 585.0 40 Holland Street . . .

Broadway

Summer Street . . .

School Street

STREETS ACCEPTED IN 1886.

STREET NUMBERING.

Five streets were numbered, and the owners of buildings noti-Many new buildings on streets already numbered were located on the numbering plans, and the owners of the buildings notified.

SURVEY OF THE CITY.

No special appropriation was made for this work, but the appropriation for salaries was two hundred dollars more than in 1885. Surveys were completed on Linwood Street, also on Dane Street and vicinity, Hinckley Street and vicinity, and a large number of new buildings located to complete the old work. We now have seventeen sheets (size 23 x 31), all of which are made on tracing cloth, and can be reproduced by the "blue process."

SIDEWALKS.

The following table will show the sidewalk improvements during the year: --

COMI.	\$194 60 491 40 332 01 1,116 74 74 22 464 50 579 46 629 57 301 72 140 50 517 18 422 56 118 66 400 83 804 30 608 39	\$7,196 64
Approx. length of walk, in feet.	116 250 250 250 250 1,090 115 950 115 950 170 170 170 170	8,929
Materials.	Bricks and edgestones. Bricks and edgestones. Bricks	•
To	Northwesterly Broadway	
From	North Street Evergreen Avenue	•
Sido.	Northeast. West. South. Northwest, East. Both. South. Northwest, Both. South. Northwest, Roth. South. Northwest, Roth. Northwest,	
Street.	Broadway Dartmouth Davis Square Blm Gilman Gilman Medford North North Spring Spring Spring Summit Ave Tufts	Totals

The Board of Aldermen assessed one half the cost on the abutters.

EXPENSES.

The exp		of	the	depar	rtmen	t for	the	year	1886	were	as
10110 ws : —	•								-		
Salary of	eity en	gine	er, i	ncludi	ng th	e ma	inten	ance o	f a		
team				•	•	•	•	•	. \$	2,000	00
Salaries of											
Repairing	instr	ume	ents,	stati	ionery	y, s	pikes	too	ols,		
	etc.						_			107	78
					,	,	,			. = . =	10
	To	tal e	expe	nse of	depa	rtmei	nt.	•	. 93	3,765	18
			Re	especti	fully s	submi	itted.				
				A			,				

GEORGE A. KIMBALL,

City Engineer.



REPORT

OF THE

COMMITTEE ON FIRE DEPARTMENT.

In Board of Aldermen, Jan. 1, 1887.

Accepted and referred to the next city council, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

Concurred in.

DOUGLAS FRAZAR, Clerk.

IN COMMON COUNCIL, Jan. 1, 1887.

IN COMMITTEE ON FIRE DEPARTMENT, Jan. 1, 1887.

To the City Council of Somerville:

The following is the final report of this committee for the year 1886:—

We present herewith the annual report of the chief engineer of the Fire Department for the year just closed, and recommend that it be printed with the other reports.

We most heartily indorse the chief's recommendation that a chemical engine be procured. It would be especially valuable in the winter season, when the travelling is bad, and the steamer, owing to its weight, cannot be moved rapidly. A single engine is not, in our opinion, sufficient protection for a city so large and with so much high land.

We also hope that the number of new hydrants provided will in some degree keep pace with the increase of buildings, as they not only save hose, but by making short lines of hose sufficient to reach a fire, add greatly to the efficiency of the streams.

The number of men and the equipment of the department remain the same as last year.

The following is a statement of the receipts and expenses for the year ending Dec. 31, 1886:—

FIRE DEPARTMENT ACCOUNT.

CREDIT.

Total credit	(am	ount (carrie	d fori	vard)		\$24,089	50
For articles sold.		•	•	•	*	•	89	50
Appropriation. Receipts and credits:—			•	•	•	•	\$24,000	00

4	Amount	brou	ght fo	rware	<i>d</i> .			•		\$24,089	50
					DE	BIT.					
Expe	nses:—	•									
For	r salarie	s of	perma	anent	men	•	•	\$9,780	00		
	66	"	eall-m	en	•	•		4,869	16		
8	substitut	te dri	vers	•	•	•	•	352	15		
i	mprover	ment	s and	repai	rs of	app	ara-				
	tus an	d vel	nicles	•	•	•	•	331	67		
r	new vehi	icles	•	•	•		•	50	00		
i	mprover	nents	and	repair	rs of t	ouild	ings				
	and fu	rnitu	re, a	nd ne	w fur	nitur	е.	901	64		
n	naintena	nce	and	exter	sion	of t	fire-				
	alarm	teleg	raph	, incl	uding	g al	arm				
	striker	and	settir	ng san	ae in	towe:	r on				
	the cit	y's la	nd, S	\mathbf{Somer}	ville .	Aver	ue,				
	and th	ree n	ew b	oxes				1,228	13		
h	ose and	hose	pipes	and r	epair	ings	ame,	64	05		
n	ew hors	es			•			1,000	00		
g	rain and	d fee	d.		9		•	528	07		
h	orse-sho	eing		•				213	32	•	
h	arnesses	s, and	d rep	airing	same	е.		184	80		
	orse me						•	91	20	•	
h	ay and	straw	7.	•			•	905	79		
ft	uel	•		•	•		•	423	16		
S	upplies			•	•	•	•	190	15		
W	ater fo	r hy	drant	s and	dep	artm	ent				
	buildin	gs		•				1,835	82		
g	as.		•	•	•		•	299	20		
ic	e .		•		•			41	00		
	surance			•			•	123	7 5		
π	ashing	and i	ronin	ıg	•	•		133	25		
m	naintena	n c e c	of res	ervoir	. '			2	74		
ir	ncidenta	ls	•	•	•			455	18		
m	naintena	nce o	fhan	d fire-	extin	guish	ers,	52	80		
		Tota	l deb	it	٠.			•		24,057	03
		Bala	nce u	nexpe	eņded	•				\$32	47
		Fo	or the	com	nittee	,					
		3		AI	BER			DBINS		, Chairma	ın.

GEO. I. VINCENT, Clerk.

REPORT

. OF THE

CHIEF ENGINEER OF FIRE DEPARTMENT.

IN BOARD OF ALDERMEN, Jan. 1, 1887.

Referred to the next city council, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

In Common Council, Jan. 1, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

SOMERVILLE, Mass., Dec. 31, 1886.

To the Committee on Fire Department:

Gentlemen, - Agreeable to custom, I herewith present to you a report of the operations of the Fire Department for the year 1886, a statement of the apparatus and its condition, and recommendations for increasing the public safety.

The number of fire alarms duri	ing th	ie yea	ar was	•			34
The loss on property by fire wa	as		0			\$5,528	00
Insurance on the same .	•	•	•			15,800	00
m)	0 11	,					
The causes of alarms were a	is foll	lows:					
Breaking of a kerosene lamp			•	•		•	2
Hot ashes in wooden receptacl	е.			•	•	•	2
Greasy rag near stove		•		•			1
Smoke from building mistaken	for fi	re				•	2
Incendiary		•		•			4
Explosion of oil stove .						•	1
Wooden beam projecting into s	smoke	e flue			•	•	1
Boiling tar on cook stove .				•			1
Children playing with matches					•		1
Thawing out water-pipe .						•	1
Stroke of lightning					•		1
Fumigating hen-house .		•			•		1
Sparks from locomotive engine			•		•		2
Fire-crackers on roof .							5
Breaking of lantern			•	•			1
Sparks on roof from chimney						•	1
Ignition of painter's rags.	•	•				•	1
Drying plastering					•		2
Fires in Cambridge					•		2
Unknown						•	2
Total alarms	•		•	•	•	•	34

MANUAL FORCE.

The manual force of the department consists of-

One steam fire-engine company of twelve men			12
Four hose companies of eight men each .	•		32
One hook and ladder company of fifteen men	•		15
One assistant engineer			1
One chief engineer	•		1
			61

APPARATUS.

The fire apparatus in service consists of one steam fire-engine and hose tender; one hook and ladder carriage; four hose carriages, and 7,750 feet of hose.

There is in reserve one steam fire-engine, one hook and ladder carriage, and one horse hose carriage, either of which can be put in service in case of accident to the regular apparatus.

BUILDINGS.

The several buildings of the department are in good condition. The steamer house is so narrow that there is not sufficient room for quick work in hitching up; if it were made wider, it would not only be more convenient for the apparatus now there, but would also furnish excellent accommodations for a chemical engine. The location is central, the need of such an engine is universally admitted, and it seems as though it would be in the interest of economy to purchase one. This with the proposed tanks on Hose Four would furnish excellent apparatus for extinguishing dwellinghouse fires.

FIRE HAZARD.

Within two years, large areas of pasture land have been sold in small lots, and hundreds of buildings, in close proximity to one another, have been erected thereon. The high lands of our city are such desirable locations for residences that the owners have been prompted to erect buildings on land formerly used for raising fruit and flowers. In short, many sections of our city which but

recently were sparsely settled are now compactly built, and our liability to have a large fire is greater than at any former time.

The water pressure on the elevated sections is not of sufficient force to throw effective fire streams, and the property situated thereon is dependent for protection on one steam fire-engine. I think the time has come for the city to provide some additional extinguishing apparatus to co-operate with the steamer in places where the gravity pressure of water fails us.

FIRE-ALARM TELEGRAPH.

This valuable auxiliary of the department is in excellent order. There is no other apparatus connected with the service that requires such constant vigilance as the fire-alarm telegraph. Notwithstanding the multiplicity of telephone wires, frequently causing interference with the wires of this system, and its exposure to storms, interruptions in its workings have been promptly remedied and the lines restored to their normal condition. I still believe that the three circuits should be divided into eight; then, if a circuit is broken, only a small section of the city is without the alarm, and the close proximity of another circuit would furnish the means whereby an alarm could be given.

The alarm consists of thirty miles of wire, seventeen gongs, six tower-bell strikers, and thirty-nine fire-alarm boxes. Three of the latter were put in service this year, namely, Nos. 33, 217, and 225. The alarm is run by a Hill battery of 212 cups. More alarm boxes are necessary, and one should be put in as soon as possible in the vicinity of Cottage Avenue and Chester Street.

As an additional means whereby information can be given the firemen of the existence of a fire, I recommend that the telephones at the fire stations be connected with the central office.

HYDRANTS.

Sixteen new hydrants have been set during the year, and others have been promised, but I have not learned that they have been put in.

I am pleased with the number of hydrants put in this year, and hope we shall be furnished with an equal number next year.

Hydrants at frequent intervals lessen the length of hose line

required to reach the fire, thus reducing the amount of friction, and thereby furnishing more effective fire streams. The total number of hydrants is now 310.

I desire to express my heartfelt thanks to his Honor the Mayor, and to the chairman and each member of the committee on fire department, for the kind interest shown towards the department, and their hearty co-operation in all matters appertaining to its welfare.

Respectfully submitted,

JAMES R. HOPKINS,

Chief of Fire Department.

REPORT

OF THE

COMMITTEE ON PUBLIC PROPERTY.

IN BOARD OF ALDERMEN, Jan. 1, 1887.

Accepted and referred to the next city council, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

In Common Council, Jan. 1, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

IN COMMITTEE ON PUBLIC PROPERTY, Jan. 1, 1887.

To the City Council of Somerville:

The committee on public property submits the following final report for the year ending Dec. 31, 1886:—

POLICE STATION INCIDENTALS ACCOUNT.

CREDIT. Appropriation . \$1,500 00 300 00 Transfer from Interest account Receipts for rent of halls 418 33 Total credit \$2,218 33 DEBIT. Expenditures: — For janitor's salary \$750 00 janitor's substitute in vacation. 14 00 229 02 76 91 gasolene. 25 26 water . 418 64 fuel insurance 20 00 moving safe from City Hall 70 00 repairs and improvements of building and furniture 323 71 incidentals . 22 97 1,950 51 Total debit Balance unexpended .

SCHOOLHOUSE INCIDENTALS ACCOUNT.

	\sim			3 ACCC			
Ammanuiation		DIT.		000 O	00		
Appropriation			•	\$8,000			
Transfer from interest account	ant	•	•	705	92		
Total credit	•	. •		•	•	\$8,705	92
	DE	BIT.					
Expenditures: -							
For repairs		. •		\$3,307	37		
improvements			•	2,861	22		
furniture	•			191	82		
rent	. 4			297	89		
insurance	•		•	1,426	95		
emptying privy vaults	•		•	76	00		
sewer assessments .				154	67		
highway betterment as	sessm	ent		385	00		
carriage hire				5	00		
Total debit	•	•	•	•	•	\$8,705	92
The expenditures at the d	liffere	$\operatorname{nt}\operatorname{sch}$	oolh	ouses w	ere a	as follows :	
	Roach	Ottorno	,				
-	Deuth	Siree	t.				
Repairs	·	Stree .	t. •	\$76	11		
Repairs	•	Stree .	t.		11 00		
Repairs	•		•			\$10 0	11
Repairs Emptying privy vault .	•	•	•	24	00	\$10 0	11 ·
Repairs	•		•		00	\$100	11
Repairs Emptying privy vault . Repairs Improvements:—	•		•	\$397	56	\$10 0	11
Repairs			•	24	56	\$10 0	11
Repairs		. Bell.		\$397	56	\$10 0	11
Repairs Emptying privy vault . Repairs Improvements:— Transoms over doors . Steam heating apparatus contract and extras		. Bell	35	\$397	56	\$100	11
Repairs Emptying privy vault . Repairs Improvements : — Transoms over doors . Steam heating apparatus contract and extras plans		. Bell	35	\$397	56	\$100	11
Repairs		. Bell		\$397	56	\$100	11
Repairs Emptying privy vault . Repairs Improvements : — Transoms over doors . Steam heating apparatus contract and extras plans		. Bell		\$397	56	\$100	11
Repairs		. Bell	35 00 00	\$397	56	\$100	11
Repairs		. Bell	35 00 00	\$397	56	\$100	11 .
Repairs		. Bell	35 00 00 35	\$397	56	\$100	11
Repairs		. Bell	35 00 00 35	\$397	00 56 00	\$100	11
Repairs		. Bell	35 00 00 35	\$397 150 2,453	00 56 00		
Repairs		. Bell	35 00 00 35	\$397 150 2,453	00 56 00 78	\$100 3,035	

RE	PORT	OF	COMMIT	TE	E ON	PUBL	IC PR	OPE	RTY. 2	273
Amou	ent bro	ught	forward	ł.	•	•	•	•	\$3,135	5 5
				Bea	nnett.					
Repairs.			•				\$48	26		
Insurance			•	•		•	18	00		
									. 66	26
				Bing	gham.					
Insurance	•	•	•	•	•	•	\$85			
Sewer asse	essmen	it.	•	•	•	•	98	67	183	67
				Bro	ustow.				100	07
Repairs.							\$72	65		
Insurance		•	•		•	•	"	75		
Emptying						•		00		
200									• 159	40
				B_{i}	urns.					
Insurance		•	•				•	•	85	00
			C).	~	Ctoro	n#				
Repairs.	•				Stre	ei.	\$ 68	KG		
Insurance	•	•	•	•	•	•	24			
Emptying	privy-	vaul		•	•	•	12			
k 'J' ' 8	r J								104	56
			Clar	$\cdot end$	on Bl	ock.				
Rent .	•			•	•		\$297	89		
Repairs.	•		•	•	•	•	25	60		
									323	49
TD 1					mings	•	A = =	~0		
Repairs. Furniture		•				•	\$17			
rurmuare	•	٠	4	•	•	•		00	23	53
				Dc	avis.					
Repairs .			•		•		\$86	34		
Sewer asse		t.				•	56			
									142	34
				Ed	gerly.					
Repairs.		•			•	•	•	•	145	53
Amou	nt carr	ried j	forward	.,	,		•		\$4,369	33

Amou	nt brought f	forwar	d	•				\$4,369 33
			For	rster.				
Repairs.		•				\$100	17	
Furniture		•		•		34	40	
Insurance		•		•		20	00	
Evergreen	Avenue h	ettern	nent	asse	ess-			
ment		•	•	•	•	385	00	539 57
			Fran	nklin.				000 01
Repairs.		•	•	•		\$79	67	
•	ents (drain						00	
Furniture			•	. ′		5	00	
Insurance						105	00	
Emptying	privy vault					8	00	
1 0								259 67
			Har	vard.				
Repairs.	• •	•	•	•	•	\$34		
Furniture	•	•	•	•	•		00	
Insurance	• •	•	•	•	•	30	00	50 00
			H	igh.		-		70 06
Danaira (i	noluding n	ow ti		•	d			
- `	ncluding n expenses c							
	old tinning,		•	DIOW.	ıng	\$852	05	
	ents (curtain		-	•	•	54		
Furniture	ches (cartair		****	•	•	15		
Insurance			·	·	·	241		
Induitmoe	•	·		Ť	·			1,163 47
			High	land.				
Repairs.		•	•	•	•	\$160	42	
Improveme	ents (covere	ed wa	y to	wat	er-			
closets	s, gas-piping	g, etc.)).	•	•	71	14	
Furniture		•	•	•	•	5 8		
Insurance		• ′	•	•	•	255	00	* 4 * 90
			Jack	kson.				545 38
Repairs.						\$61	50	
Furniture						11	41	
Insurance	• •			•		99	00	•
								171 91
Amour	nt carried fo	rward		•		•	•	\$7.119 39

Amount	bro	ught for	rwar	d					\$7,119	39
				Line	coln.					
Repairs.							\$69	30		
Improvement							70			
Emptying pr								00		
PJ8 P	- 1 5					·			147	30
				Mor	rse.					
Repairs .		•					\$339	61		
Improvement							\$552 \$	01		
							145	02		
		•			•			22		
z armitti o	•	•	·	•	•	•			489	85
				Pres	cott.					
Repairs .							\$104	67		
Insurance	•	•	•	•		•	196		*	
Insurance	•	•	•	•	•	•	100		301	62
			1	Prospe	ct Hil	7.			301	
Repairs .		•	•				\$231	72		
Furniture		•		•	•		3	00		
Insurance					•		84	00		
									318	72
			,	Spring	y Hill	•				
Repairs .	•	•	•	•	•	•	•	•	17	43
				Una	ion.					
Repairs .							\$92	69		
Furniture								00		
Insurance							11			
	Ť			·	Ť	·			108	94
				Web	ster.					
Repairs .			•	•	•	•	\$87	92		
Insurance	•			•			93	75		
Emptying pri	ivy	vaults					16	00		
									197	67
									\$8,700	92
Carriage hive										00
Carriage hire	•	•	•	•	•	•	•	•		
									\$8,705	92

SCHOOLHOUSE IN WARD THREE (BINGHAM SCHOOL) ACCOUNT.

	CREDIT.				
Appropriation		•		•	\$8,500 00
	Девіт.				
Expenditures: —	DEBII.			•	
For 20,896 square feet	of land	on			
Lowell Street, at 9 ce			1,880	64	
on account of contract					
architect's services and	l plans (on	ac-			
count)			320		
water-service pipe .					
lumber and labor in loc	ating cella	r.	3	22	
Total debit		•	•	•	\$7,831 74
Balance unexp	ended .	•	•	•	\$668 26
SCHOOLHOUSE IN WARD	FOUR (B	URNS	SCH	00L)	ACCOUNT.
e •	CREDIT.				
Appropriation	• •	•	•	•	\$8,500 00
	D	^			
Expenditures: —	DEBIT.				
For 16,080 square feet of	land Ch	1111177			
Street, at 12 cents		_	1.929	60	
on account of contract i					
on account architect's se			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
plans and specificatio			320		
water service		•	- 4	00	
lumber and labor in loca	ating cella	r .		72	
Total debit			4		
	ed 9		•	•	\$ 7,683 32

PUBLIC LIBRARY BUILDING ACCOUNT.

CREDIT.

Appropriation (balance from year 1885)	\$311 55
Девіт.	
Expenditures: —	
For granite steps and curbing	258 75
Balance unexpended	\$52 80
EXPENDITURES BY THIS COMMITTEE FROM TH	
PRIATION FOR MISCELLANEOUS ACCOUN	Τ.
For City Hall expenses: —	
gas	
fuel	
water	•
ice (for 1885) 40 00	
resetting bank curbing and discontin-	
uing old driveway 217 64	
pay of assistant janitor 180 00	
repairs and furniture 386 74	
incidentals	\$1,473 56
voting-list boards and ballot-boxes and teaming	\$1,410 00
same	45 50
preparing rooms for caucuses and elections .	35 03
rent of rooms for caucuses and elections	105 00
raising and lowering flag-staffs and repairing flags	
and halliards	44 69
rebuilding fence at cemetery	46 00
ringing bells July 4	3 00
removing flag-staff in Union Square	54 50
new flag-staff at police building	295 00
platform at police building for Inauguration Day,	20 10
tools for superintendent of public buildings .	1 96
salary of assistant janitor of Public Library .	180 00
	\$2,304 34
	92,004 04

SCHOOLHOUSE INCIDENTALS ACCOUNT.

The only improvement under this account involving any considerable expense was made at the Bell School. The castings of the furnaces were worn out and could not be replaced because the patterns had been destroyed, and as new apparatus of some kind had to be provided, it was deemed best, in so large a building, to put in steam. Accordingly, plans and specifications were obtained for heating the building by steam, and a contract was made, by authority of the city council, with A. B. Franklin, who was the lowest bidder, for the sum of \$2,383.79, which, with his bill for extras of \$11.56, and the cost of the plans and specifications, \$40, carpentering, \$34.50, and masonry, \$10.50, made the total outlay for this improvement \$2,480.35. The apparatus has thus far given excellent satisfaction, and we believe the money was well spent.

A violent storm in the month of March tore the tinning from the roof of the High Schoolhouse, and the weather was so severe and the position of the building is so exposed, that it could not be re-tinned at once; consequently, the roof had to be covered with canvas temporarily, and a large canvas tent was spread in the hall for the protection of the building. The re-tinning was done with wooden strips nailed through into every rafter, so that it seems impossible for the damage to be repeated. The total cost of repairing the damage, including the temporary use of canvas, was, as before stated, \$641.67.

NEW SCHOOLHOUSES.

Land has been bought on Lowell Street in Ward Three, and on Cherry Street in Ward Four, and two four-room brick school-houses have been partially constructed thereon. The one on Lowell Street has been partially slated, and the other is ready for slating.

Messrs. J. H. Coon & Co. are the contractors for both buildings, under one contract, for the sum of \$21,000; and Mr. George F. Loring is the architect. The contract does not include heating apparatus or furniture.

The building on Cherry Street has been named the Burns School, in honor of our present mayor; and the one on Lowell

Street has been named the Bingham School, in honor of Col. Norman W. Bingham, for many years a member of the school committee.

PUBLIC LIBRARY BUILDING.

The bill of Martin Mullen for granite curbing in front of the library grounds, and for two granite steps at the entrance to the building, amounting to \$291.25, which was left unpaid last year, has been settled for the sum of \$258.75, as appears in the foregoing statement of the account.

For the committee,

DANIEL C. STILLSON, Chairman. GEO. I. VINCENT, Clerk.



REPORT

OF THE

COMMITTEE ON FUEL AND STREET LIGHTS.

IN BOARD OF ALDERMEN, Jan. 1, 1887.

Accepted and referred to the next city council to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

In Common Council, Jan. 1, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

IN COMMITTEE ON FUEL AND STREET LIGHTS, Jan. 1, 1887. To the City Council of Somerville:

The committee on fuel and street lights submits the following final report for the year 1886:—

SCHOOL FUEL ACCOUNT.

	2011001	2 2 3 1.12		00001				
		CREDI	IT.					
Appropriation	ı	•	•			•	\$5,200	00
		Dеві	т.					
Expenditures	:							
_	Beach Street	School			\$71	46		
	Bell	6.6			323	00		
	Bennett	4.4	٠		164	65		
	Brastow	٤ ډ	•		68	81		
	Cedar Street	٤ ډ			48	37		
	Clarendon Blo	oek "	•		43	41		
	Cummings	6 6		•	49	80		
	Davis	66	•		219	33		
	Edgerly	4 4			682	42		
	Forster	44			671	55		
	Franklin	6.6			163	25		
	Harvard	44		•	31	28		
	High	6.6			493	96		
	Highland	4.6	•		496	74		
	Jackson	6.	•	•	181	94	·	
•	Lincoln	66		•	236	63		
	Morse	66		•	227	92		
	Prescott	• 6	•		393	55		
	Prospect Hill	4 4	•		161	51		
Amounts	s carried forwa	rd .		. \$4	,729	58	\$5,200	00

Amounts brought forward	•		\$4,729	58	\$5,200	00
For fuel to Spring Hill School				09	# - ,	
Union "				90		
Webster "	•		146			
Total expenditure				•	4,928	94
Balance unexpended	d .	•			\$271	06
		S. S. S.				
STREET LIGH	TS A	CCC	OUNT.			
Cre	DIT.					
Appropriation	•	•	•	•	\$9,500	00
For new street lamps erected, 17	7 at \$	20,	\$340	00		
naphtha barrels sold .		•	9	00		
repairs of street lamps dam	aged	by				
teams		•	60	98		
				_	409	98
Total credit .	•	•		•	\$9,909	98
TO						
DEI	BIT.					
Expenditures: —	BIT.					
Expenditures: — For gas, —	BIT.					
Expenditures: — For gas, — to Charlestown Gas Com-						
Expenditures: — For gas, — to Charlestown Gas Company \$1	,873	54				
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light	,873					
Expenditures: — For gas, — to Charlestown Gas Company \$1	,873	03	\$ <i>A</i> 919	57		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2	,873	03	\$4,212	57		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, —	,873	03	\$4,212	57		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to	,873	03	\$4,212	57		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, —	,873 ,339	03	\$4,212	57		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons	,873 ,339	03	\$4,212	57		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons to Dec. 31 1,	,873 ,339 	03	\$4,212 2,179			
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons	,873 ,339 	03	ŕ	52		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons to Dec. 31 1, new street lamps repairs of street lamps .	,873 ,339 723 ,456	03	2,179 1,004 559	52 88 91		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons to Dec. 31 1, new street lamps repairs of street lamps supplies (naphtha, alcohol, etc.)	,873 ,339 723 ,456	06	2,179 1,004	52 88 91		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons to Dec. 31 1, — new street lamps repairs of street lamps . supplies (naphtha, alcohol, etc.) incidentals (advertising for pr	,873 ,339 723 ,456	06	2,179 1,004 559 402	52 88 91 16		
Expenditures: — For gas, — to Charlestown Gas Company \$1 to Cambridge Gas Light Company 2 lighting and care of lamps, — to Christopher Burke to May 1 to sundry other persons to Dec. 31 1, new street lamps repairs of street lamps supplies (naphtha, alcohol, etc.)	,873 ,339 723 ,456	06	2,179 1,004 559	52 88 91 16		

Amounts brought	forward		. \$8	,429	41	\$9,909	98
For street signs .				31	50	,	
moving street lan	nps .	•	•	23	48		
changing naphtha	a lamps to c	oil lam	ps	53	23		
posts and lanters	ns on hand	(sixte	en				
posts and thirty	y-six lanteri	ns)		324	75		
ØD - 4 - 1	1'4		-			0.000	2=
Total ex	xpenditures	•	•	•	•	8,862	37
Balance	unexpende	d.	-	•		\$1,047	61
							_

FUEL.

The following are the prices paid for fuel: -

To George M. Winslow & Co., under contract for year ending July 1, 1886, \$4.45 per ton for furnace and egg coal, \$5.15 for stove coal; \$8.00 per cord for heardwood, and \$7.00 for soft wood; and to B. F. Wild & Co., under contract for year ending July 1, 1887, \$4.38 per ton for furnace and egg coal, \$4.80 per ton for stove coal; \$6.50 per cord for hard wood, and \$5.50 for soft wood.

STREET LIGHTS.

Christopher Burke's contract for lighting and cleaning the street lamps, both gas and oil, for a compensation of thirty-nine cents per month for each lamp, expired on the first day of May last; and since that date the work has been directly in charge of the superintendent of public buildings and lights under the supervision of this committee.

The committee, after careful consideration, established the prices to be paid for lighting and taking care of gas lamps at thirty-five cents per month each, and of oil lamps at fifty-five cents (it being understood that the average number of lightings per month should be about twenty-two), making the average price substantially the same as that paid Mr. Burke last year; and the superintendent was authorized to employ suitable parties to do the work. This change in the method of lighting has given good satisfaction to the committee, and, we have reason to believe, to the public as well.

A change was also made, about the last of October, in the fixtures used in the oil lamps. The naphtha fixtures had become so much worn that it did not pay to continue repairing them, and in view of the constant danger from explosion of the naphtha in the lamps, as well as of that on storage, and for other reasons, it

was deemed best to do away with these fixtures, and to substitute common kerosene oil lamps. They give as good a light as the naphtha fiturxes, can be run as cheaply, and the first cost is less.

The committee on street lights of 1885 recommended, in their final report, that a few lights of greater brilliancy than those commonly used be placed in the public squares and thoroughfares; and, believing in the wisdom of this suggestion, we have erected three lamps with thirty-feet burners in Union Square, and have changed from four-feet to thirty-feet burners one lamp in Davis Square, one on Broadway at the corner of Franklin Street, and one on Broadway at the corner of Marshall Street.

The average time when the lights are extinguished is half past twelve.

The price paid for gas during the entire year has been \$1.65 per thousand feet, except in her thirty-feet lamps, for which the price is \$1.50 per thousand.

The price collected from abutsers for each lamp erected has been continued at twenty dollars.

The following is a table of street lamps, showing the additions during the year: —

		estown as.		oridge as.	Oil lamps.	Total.
	4 feet.	30 feet.	4 feet.	30 feet.	Oil	
Lamps in the city Jan. 1. 1886, as per last report Deduct for correction in numbers of gas	178		216	••	70	464
lamps. •	1	••	2	••		••
Erected during the year at expense of city. Erected during the year at expense of abut-	177	••	214 4	3	70 9	461 16
ters	9	••	4	••	4	17
Changed from oil to gas	186	::	222 1		83 2	494
Changed from 4-feet to 30-feet	187	2	223 1	3 1	81	494
	185	2	222	4	81	494

The lamps erected at the city's expense, except the 30-feet gas lamps hereinbefore enumerated, have been placed on main avenues, in front of city property and in front of large tracks of vacant land, as follows:—

Broadway at Alewife Brook.

- " Willow Bridge, east side.
- " west side.
- " corner of Cedar Street at City Farm.
- " Elm Street.
- " Willow Avenue.
- " in front of Lincoln School.

Medford Street, between Somerville Avenue and the Fitchburg Railroad.

Medford Street, between Walnut Street and Lowell Railroad.

Somerville Avenue, corner Church Street.

Walnut Street, at Lowell Railroad bridge.

Washington Street, between Prospect and Mystic Streets.

Washington Street, corner Franklin Street.

For the committee,

MOSES G. STEELE, Chairman. GEO. I. VINCENT, Clerk.



REPORT

OF THE

CITY SOLICITOR.

IN BOARD OF ALDERMEN, Feb. 23, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, Clerk.

In Common Council, Feb. 24, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

SOMERVILLE, Feb. 14, 1887.

To the Honorable the Mayor and City Council of Somerville:

Gentlemen, - I beg leave to present the following as my eleventh annual report. Outside of advice during the year to departments and city officers, which of course year by year requires increased time and attention, there have been two matters to which I have given much labor. The first relates to the application which I was instructed by your honorable body to make to the General Court for a general act, providing in substance that cities and towns, whose sinking funds consisted wholly or in part of their own bonds or securities, might apply the same toward the payment of their funded debt, and be allowed a period not exceeding twenty years for the payment of the remainder. A hearing was had April 21, 1886, before the committee on cities, at which his Honor the Mayor and myself presented your views upon the matter. Some time afterwards the secretary of our sinking fund commissioners presented in writing to the committee his own and the objections of the commissioners to the proposed legislation. This communication naturally produced an unfavorable impression in the minds of some of the committee, and retarded their action upon the bill proposed. The outcome was a divided sentiment upon the expediency of any general legislation upon the subject, although the committee expressed themselves as unanimously in favor of reporting a special act for the city of Somerville, embodying all the provisions of the bill as presented. Mayor and I did not feel authorized or inclined to accept, as we did not desire to impair the first-class credit of the city by any adverse or unfriendly conclusions that might be drawn from the very fact of obtaining exceptional legislation.

Late in the session, the committee, by a divided vote, reported in favor of a general bill, or rather voted so to report; but as it was

then too late to expect a patient discussion of its merits in the General Court, it was considered best to let the matter pass until another year.

The second matter to which my attention was directed was the new water contract with the city of Boston, which, for reasons set forth in my last annual report, failed last year of execution. The efforts of our Water Board were renewed early this year, and were most persistently prosecuted, with the gratifying results with which you are all familiar.

During the year nine claims have been heard by the committee on claims. I have attended all the hearings, and from time to time have given the committee my opinion as to the proper disposition of these demands. The following summary will furnish you, I believe, all necessary information concerning the same:—

- 1. Claim of Susan McCauley, for injuries to her person, upon Somerville Avenue, Jan. 24, 1886. Suit was brought upon this claim, and Oct. 28, 1886, we were present to defend the case in the Superior Court at East Cambridge, but the plaintiff failed to appear, and the case was non-suited.
- 2. John A. Hart's claim for injuries upon Cutter Street, Feb. 8, 1886, was settled by the Mayor, upon my recommendation, for a small sum.
- 3 and 4. Claims of the East Cambridge Savings Bank and of Ellen Gibbons, for damages by alleged raising of grade of Linwood Street. The petitioners, for reasons that I need not take your time to explain, were, upon my recommendation, given leave to withdraw, and we have heard nothing from them since.
- 5. The claim of Eliza Young, for personal injuries upon Franklin Street, Jan. 8, 1886, has ripened into a suit in the Superior Court at Cambridge, which is now pending.
- 6. The claim of Casey and Kearney for injuries to a team, May 7, 1886, upon Maple Street, resulted in a committee report that no further action was necessary.
- 7. In the case of the claim of Leonard C. Seavey, for damage to horse and wagon by the alleged careless handling of a hydrant upon Broadway, June 14, 1886, the petitioner was given leave to withdraw.
- 8. Claim of Horatio Wellington & Co. for damage to horse, June 30, 1886, upon Emerson Street, was settled, upon my recommendation, by payment of the sum of thirty dollars.

9. In the case of B. F. Allen, claimant of compensation for use of his land at corner of Somerville Avenue and Medford Street, by the city as a dumping place, the committee reported no further action necessary.

I have tried or otherwise disposed of the following cases in court during the year:—

- 1. The application of Benjamin Hadley and others came up before the county commissioners of Middlesex County, March 16, 1886. The petitioners asked for a jury to assess their grade damages upon Linwood Street. The commissioners refused their request.
- 2. The case of George P. Deshon, for injuries received upon Day Street, was tried before a jury in the Superior Court at Cambridge, May 10, 1886, and resulted in a verdict of thirteen hundred dollars against the city.
- 3. The case of Col. C. G. Rowell, for injuries received upon Pearl Street, came up for trial before a jury in the Superior Court at Cambridge, June 14, 1886. The case was opened to the jury, and the jury viewed the driveway upon which the plaintiff fell. when the case was suspended in order to enable me to submit to the city council a proposition for settlement then made to me by plaintiff's counsel. This proposition was to settle for twelve hundred dollars; and the city council deemed it for the interests of the city to settle for that sum, which was accordingly done.
- 4. The case of Hannah E. Dodge, for injuries received upon Washington Street, was tried before a jury in the Superior Court at Cambridge, June 16 and 17, 1886, and resulted in a verdict of fifteen hundred dollars against the city.
- 5. The case of Susan McCauley, for injuries received upon Somerville Avenue, resulted favorably to the city, Oct. 28, 1886, in the manner I have already described in another place in this report.
- 6. The case of Frederic Ayer and others, trustees of the estate of the late Dr. J. C. Ayer, to quash the sewer assessments levied upon their land upon Morrison and Cedar Streets, was argued by me before the Supreme Court, Nov. 10 and 11, 1886, and has not as yet been decided by that tribunal.

The following cases, to which the city is a party, were pending at the close of the last municipal year: —

1. Mayor and Aldermen of Somerville v. Fitchburg Railroad

Company, before the county commissioners of Middlesex County. Petition for grade crossing of railroad location at Sacramento Street.

- 2. Parker v. Somerville, before Supreme Judicial Court in Middlesex County. Bill in equity to restrain nuisance alleged to be caused by the city upon Mystic Flats.
- 3. Parker v. Somerville, before county commissioners of Middlesex County. Damages for injury to real estate by nuisance growing out of sewage.
- 4. Squire v. Somerville, before Superior Court in Middlesex County. Damages for conversion of box-drain.
- 5. Mayor and Aldermen v. Boston and Lowell Railroad Company, before the county commissioners of Middlesex County. Petition for repairs in bridges across railroad location in Somerville.
- 6. The case of Frederick Ayer et al., trustees, etc., petitioners for a writ of certiorari to quash sewer assessments on Morrison and Cedar Streets, already referred to.
- 7. Shea v. Somerville, before Superior Court in Middlesex County. Action for personal injuries upon Russell Street, Oct. 14, 1885.
- 8. Joslin v. Cole et al. Action for false arrest and imprisonment.
- 9. Mullin v. Somerville, before the Superior Court at Boston. An action of contract for extra stone work, etc., upon the Public Library grounds. This case will be settled as soon as an administrator is appointed, the plaintiff having died since the institution of the suit.
- 10. William H. Mahoney v. County Commissioners of Middle-sex County. Petition for mandamus to compel the respondents to issue an order for a jury to revise the assessment of land damages by the Mayor and Aldermen of Somerville, upon the extension of Evergreen Avenue.
- 11. Rufus B. Stickney v. City of Somerville Petition for a jury to revise betterment assessments upon forty lots of land for extension of Evergreen Avenue.

Respectfully submitted,

SAMUEL C. DARLING,

City Solicitor.

REPORT

OF THE

CITY CLERK.

REPORT OF THE CITY CLERK.

Annual report of the receipts of his office for the year ending Dec. 31, 1886; also the registration of marriages, births, and deaths for the same period.

RECEIPTS FOR THE YEAR ENDING DEC. 31, 1886.

Recording mortgages	and as	signm	ents	•		\$302	74
Fees for licensing do	gs .		•		•	190	60
11 auctioneers' lice	enses				•	22	00
34 junk licenses .		•		•		68	00
321 marriage certi	ficates					160	50
1 billiard table .				•	•	4	00
12 liquor licenses.	•	•	•	•	•	12	00
					-	\$759	84

All of which has been paid to the city treasurer, and his receipt taken for the same.

MARRIAGES IN 1886.

Number of intentions issued in	in 1886 .			321
Increase over last year .				30
Marriages registered in 1886		•	•	354
NATIONALITY OF TE	HOSE REGIST	TERED.	•	

Both parties American .

-							
".	foreign	•	•	•	•	94	
American g	groom and f	oreign	bride			42	
Foreign gr	oom and An	nerica	n brid	le	•	33	
							354 couples.

	First ma	rria	ige c	of .	•		•	•	627		
	Second		•	•			•	•	76		
	Third	•			•	•			4		
	Fourth					•			1		
	Oldert n				a						couples.
	Oldest p					•	•	•	67		
	Younges					•	•	•	17		
Y	oungest o										
	Bridegro								19		
	Bride	•	•	•	•	•	•	•	18		
					BII	RTHS	3.				
	Number	of	birth	s reg	istered	l in 1	.886			•	722
	Less tha	n la	ast y	ear	•		•	•			20
	Males .		•			•	•	•	•	352	
	Females							•	•	370	
	T) C				4						722
	Born of			_				•		323	
					6			•	_	264	
	America				_					66	
	Foreign	ıatı	ier a	na A	merica	in mo	otner	•	•	69	722
	Number	of o	cases	s of t	wins	•	•	•	•	10	(22
					DE.	ATHS	2				
	537 1 1	,						1	000		409
	Whole n									•	493 55
	Less tha								•	999	99
	Number									228265	
	Number	OI	теша	ties	•	•	•	•	•	203	493
	Under 1	0 ye	ears	of ag	(e .				•	173	100
	Between				•					22	
	66	20	66	30		•	•	•		56	
	66	30	66	4 0		•	•	•		5 0	
	66	40	66	50	•	•	•	•		32	
	66	50	66	60			•	•		39	
	66	60	66	70	•	•			•	46	
	66	70	66	80	•	•	•			40	
	66	80	66	90	•			•	•	30	
	66	90	66	100	•	•	•	•	•	5	
											493

Oldest person deceased, 95 years, 11 months, 26 days.

NATIONALITY.

Born in Son	nervil	le						164	
					otos	•	•		
	_	ices II	I Oni	ted St	ares	•	•	219	
Foreign bir	th	•	•	•	•	•		110	
									493
Number of	death	s retu	rned	by un	derta	kers			493
January			•	•	•			27	
February	•	•	•	•	• •			46	
March .	•	•						38	
April .	•	•						43	
May .	•				•			47	
June .	•				•			32	
July .	•							47	
August.	•	•			•			46	
September		•			•	•		43	
October	•				•			43	
November								38	
December			•					41	
									493

For classification of diseases, see report of Board of Health.

CHARLES E. GILMAN, City Clerk.

REPORT

OF THE

INSPECTOR OF MILK.

IN BOARD OF ALDERMEN, Feb. 9, 1887.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, Clerk pro tem.

IN COMMON COUNCIL, Feb. 10, 1887.

Concurred in.

DOUGLAS FRAZAR, Clerk.

SOMERVILLE, Jan. 31, 1887.

To his Honor the Mayor and Gentlemen of the City Council:

Gentlemen, — During the year ending Dec. 31, 1886, I have granted eighty-three new, and renewed one hundred forty-five milk licenses. I have also granted twenty-eight registers to parties who retail milk in stores. There are now one hundred and thirty-five registered places for retailing milk. I have taken and tested three hundred and forty-seven samples of milk, and have sent or carried forty-nine notices to persons where the samples did not come up to the full standard. In no case has it been necessary to institute a prosecution, as I have found it better to advise with the parties, and they have found it better to sell good milk. There have been but two complaints from individuals who thought they were receiving poor milk. In both cases the cream had been removed for breakfast coffee.

In almost every other case in which the milk was below the standard, it was because the milk in the top of the cans had been sold without properly mixing the milk; or, to be more accurate, it was sold before the cream was stirred in.

The milkmen licensed by me dispose of some six thousand cans of milk daily in Somerville and the adjoining cities; and I hear of but few prosecutions, and less convictions. Milk is now brought from a great distance, and the supply is generally bountiful and the quality good. Milk is distributed in our city directly from about seven hundred cows owned and milked by the sellers. I have also licensed twenty-one persons to deal in oleomargarine and butterine, but since the United States has taken up the license business, I think there are but few who now deal in the article; in fact, I have found but two stores where the article is kept

openly. I am free to say, that, in my opinion, the gentlemen engaged in the extensive business of the milk supply of our city and others, will compare very favorably for honesty, integrity, and fair dealing with any business class in our community.

THOMAS CUNNINGHAM,

Milk Inspector.

CITY GOVERNMENT AND OFFICERS FOR 1887.

MAYOR.

MARK F. BURNS.

Residence, 95 Perkins Street; office, City Hall.

ALDERMEN.

Elbridge G. Park, President.

WARD ONE. ELDRIDGE G. PARK . Arlington Street. NATHAN H. REED . Florence Street. WARD TWO. . Washington Street. SAMUEL W. HOLT . Washington Street. DANA W. BENNETT WARD THREE. . Gilman Street. HARRISON ALDRICH JOHN F. KENNARD . Howe Street. WARD FOUR. WALTER C. MENTZER . . Cedar Street. BERNARD W. LAWRENCE . Holland Street.

CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN.

COMMON COUNCIL.

CHARLES L. NORTH, President.

	•	WA	RD O	NE.							
GEORGE D. WEMYSS	•	•	•			Austin Street.					
GEORGE M. STARBIRD	•	•		٠.		Pearl Street.					
CHARLES M. HEMENW	AY					Perkins Street.					
RICHARD DOWD .		•				Charles Street.					
				. •							
WARD TWO.											
CHARLES L. NORTH	•		. 1	•	•	High Street.					
TIMOTHY C. DWYER	•		•	•		Somerville Avenue.					
PATRICK F. DEADY	•	•	•			Oak Street.					
JOHN W. MACDONALD			•			High Street.					
		TEZADI		200							
TO OTT		WARI	D TH	REE.		T					
Edward O'Brien		WARI	THI	REE.		Lowell Street.					
Edward O'Brien Robert Duddy .		WARI .	THI	REE.		Lowell Street. Bond Street.					
		•	•	REE. • •	•						
ROBERT DUDDY .	•	•	•	REE. • •	· · ·	Bond Street.					
ROBERT DUDDY . EZRA D. SOUTHER		•	•	•	•	Bond Street. Pembroke Street.					
ROBERT DUDDY . EZRA D. SOUTHER MARTIN L. KING .	•	•	•	•	•	Bond Street. Pembroke Street. Cross Street.					
ROBERT DUDDY . EZRA D. SOUTHER MARTIN L. KING . LOUIS E. MERRY .		•	•	•	•	Bond Street. Pembroke Street.					
ROBERT DUDDY . EZRA D. SOUTHER MARTIN L. KING .		· · · · ·		•		Bond Street. Pembroke Street. Cross Street.					
ROBERT DUDDY . EZRA D. SOUTHER MARTIN L. KING . LOUIS E. MERRY .		· · · · ·	D FO	•		Bond Street. Pembroke Street. Cross Street. Dover Street.					

CLERK OF COMMON COUNCIL.

Douglas Frazar.

JOINT STANDING COMMITTEES FOR 1887.

ACCOUNTS. — Aldermen Aldrich, Mentzer; Councilmen King, Hemenway, Proctor.

CITY ENGINEERING. — Aldermen Holt, Bennett; Councilmen Merry, Starbird, King.

CLAIMS. — His Honor the Mayor; Alderman Holt; the President of the Common Council; Councilmen Hemenway, Merry.

FINANCE. — His Honor the Mayor; Aldermen Park, Bennett; the President of the Common Council; Councilmen Bradshaw, Wemyss, Souther, Deady.

FIRE DEPARTMENT. — Aldermen Lawrence, Kennard; Councilmen Wemyss, Tucker, Duddy.

FUEL AND STREET LIGHTS. — Aldermen Aldrich, Reed; Councilmen Dwyer, Proctor, King.

Highways. — Aldermen Holt, Reed; Councilmen O'Brien, Bradshaw, Dwyer.

LEGISLATIVE MATTERS. — His Honor the Mayor; Alderman Mentzer; the President of the Common Council; Councilmen Starbird, Hemenway.

Ordinances. — Aldermen Bennett, Reed; Councilmen Souther, Tucker, Dowd.

Printing. — Aldermen Kennard, Lawrence; Councilmen Duddy, Deady, Wemyss.

Public Grounds. — Aldermen Reed, Kennard; Councilmen Merry, Souther, Macdonald.

Public Property. — Aldermen Park, Mentzer; Councilmen Duddy, Starbird, Macdonald.

Soldiers' Relief. — Aldermen Reed, Holt; Councilmen O'Brien, Merry, Dowd.

WATER. — Aldermen Mentzer, Kennard; the President of the Common Council; Councilmen O'Brien, Dowd.

COMMITTEES OF THE BOARD OF ALDERMEN.

STANDING COMMITTEES.

Elections. — Aldermen Park, Lawrence.

Enrolled Ordinances. - Aldermen Aldrich, Park.

Licenses. — Aldermen Lawrence, Holt.

Police. — His Honor the Mayor; Aldermen Aldrich, Mentzer.

Sewers. — Aldermen Bennett, Aldrich, Lawrence.

STATE AID. — Aldermen Bennett, Park, Mentzer, Kennard.

SPECIAL COMMITTEE.

Building Permits. - Aldermen Holt, Lawrence.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS. — Councilmen Tucker, Dowd, Macdonald.

Enrolled Ordinances and Resolutions.— Councilmen Souther, Deady, Proctor.

SCHOOL COMMITTEE.

MARK F. Burns, Mayor, Chairman, ex officio. Charles L. North, President of the Common Council, ex officio.

(Term, three years.)

WARD ONE.

John H. Butler (elected 1884) . . . Pearl Street.

S. Newton Cutler (elected 1885) . . Pearl Street.

Horace C. White, M. D. (elected 1886) . Arlington Street.

WARD TWO.

A. H. Carvill, M. D. (elected 1885) . . Bow Street.

James F. Beard (elected 1886) . . Prospect Hill Av.

Charles I. Shepard (elected 1884) . . High Street.

WARD THREE.

NORMAN W. BINGHAM (elected 1885) . . . School Street. Q. E. DICKERMAN (elected 1886) . . . Central Street. WILLIAM P. HILL (elected 1884) . . . Sycamore Street.

WARD FOUR.

MARTIN W. CARR (elected 1884) . . . Craigie Street.

Prof. Benjamin G. Brown (elected 1885) . Professors' Row.

H. P. Makechnie, M. D. (elected 1886) . Elm Street.

Superintendent and Secretary, J. H. Davis, Myrtle Street.

PRINCIPAL ASSESSORS.

(Term, three years.)

STILLMAN H. LIBBY (elected 1886), Chairman, Elm Street.

George W. Hadley (elected 1885) . . . Perkins Street.

Benjamin F. Thompson (elected 1887) . . . Summit Avenue.

ASSISTANT ASSESSORS.

(Term, one year.)

George W. Bartlett, Ward One .	. Mt. Vernon Street.
WILLIAM A. FLAHERTY, Ward Two	. Washington Street.
HIRAM D. SMITH, Ward Three .	. Cross Street.
SAMUEL T. RICHARDS, Ward Four .	. Summer Street.

BOARD OF HEALTH.

(Term, Physician, three years; other members, two years.)

George A. Kimball (appointed 1887), Chairman. Office, City Hall.

George C. Skilton (appointed 1886) . . . Walnut Street.

Thomas M. Durell, M. D. (appointed 1885) . Bow Street.

Clerk, George I. Vincent . . . Office, City Hall.

Inspector, William H. Brine . . . 40 Houghton Street.

COMMISSIONERS OF THE SINKING FUNDS.

(Term, three years.)

NATHAN TUFTS (elected 1886) . . . Summer Street. Henry F. Woods (elected 1885) . . . Sycamore Street. Ezra D. Conant (elected 1887) . . . Pearl Street.

Treasurer, AARON SARGENT, Broadway.

OVERSEERS OF THE POOR.

Secretary, George T. Lincoln, Office, Police Building, Bow Street.

REGISTRARS OF VOTERS:

CHARLES E. GILMAN, City Clerk.

Cromwell G. Rowell (appointed 1886 for unexpired term). John R. Conant (appointed 1884 for 3 years).

Samuel G. A. Twycross (appointed 1886 for 3 years).

SOMERVILLE MYSTIC WATER BOARD.

(Term, one year.)

J. ORLIN HAYDEN, Pres	siden	t .	•]	Hill Bu	uilding, Union Square.
WALTER S. BARNES	•	•	•		Highland Avenue.
CHARLES H. Brown		•	•		Sycamore Street.
JOHN B. VIALL .	•				Webster Street.
RICHARD T. BLACKWEL	L		•	٠.	Somerville Avenue.

Superintendent of Water Works, NATHANIEL DENNETT.
Office, Prospect Street, corner Somerville Avenue.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN (elected 1885), President,	Laurel Street.
CHARLES G. POPE (elected 1885)	Franklin Street.
J. Henry Flitner (elected 1886), Secretary,	Day Street.
George A. Bruce (elected 1886)	Highland Avenue.
WILLIAM E. WELD (elected 1887)	Harvard Street.
James E. Whitaker (elected 1887)	Sycamore Street.
WILLIAM H. Brine (elected 1886)	Highland Avenue.
SANFORD HANSCOM, M.D. (elected 1887) .	Webster Street.
CHRISTOPHER E. RYMES (elected 1885)	Summer Street.

Librarian, Harriet A. Adams. Assistant Librarian, Lizzie A. Stevens.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN. Office, City Hall.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE. Office, City Hall.

CITY MESSENGER.

JAIRUS MANN. Office, City Hall.

CITY SOLICITOR.

SAMUEL C. DARLING. Office, 18 Rogers Building, Boston.

CITY AUDITOR.

Douglas Frazar. Office, City Hall.

CITY ENGINEER.

GEORGE A. KIMBALL. Office, City Hall.

SUPERINTENDENT OF STREETS.

Frank G. Williams, Albion Street. Office, City Hall.

SUPERINTENDENT OF PUBLIC BUILDINGS AND LIGHTS THOMAS R. ROULSTONE. Office, City Hall.

SUPERINTENDENT OF TELEGRAPH AND TELEPHONE LINES.

James R. Hopkins, Summit Avenue.

CHIEF OF POLICE

MELVILLE C. PARKHURTT, Police Station, Bow Street.

CHIEF ENGINEER OF FIRE DEPARTMENT.

James R. Hopkins. Office, Engine House, Highland Avenue.

INSPECTOR OF BUILDINGS.

James R. Hopkins, Summit Avenue.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM, Oak Street.

CITY PHYSICIAN.

THOMAS M. DURELL, M. D., 14 Bow Street.

CLERK OF ASSESSORS AND COMMITTEES.

GEORGE I. VINCENT. Office, City Hall.

ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

WILLIAM P. MITCHELL. Office, City Hall.

CONSTABLES.

Jairus Mann.
Robert R. Perry.
Charles C. Folsom.
Edward McGarr.
C. C. Cavanagh.

WM. H. BRINE (Houghton St.).
WILLIAM D. HAYDEN.
SAMUEL R. DOW.
JOSEPH J. GILES.
GEORGE CULLIS.

FIELD DRIVERS.

JOHN E. FULLER. JUDSON W. OLIVER. George H. Carleton. PATRICK BENCH.

DENNIS KELLY. CHARLES S. THRASHER. GEORGE W. BEAN. CHARLES L. ELLIS.

JAMES F. FOLEY.

FENCE VIEWERS.

DAVID A. SANBORN.

CHARLES D. ELLIOTT.

POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

NOAH HARDING, Sycamore Street.

SURVEYOR OF WOOD, BARK, AND LUMBER.

SAMUEL T. LITTLEFIELD.

SURVEYOR OF STONE, BRICK, AND PLASTER WORK. ALFRED M. SIBLEY.

SURVEYOR OF MECHANICS' WORK.

CHARLES D. ELLIOT.

PUBLIC WEIGHERS.

J. C. Cousins.

D. W. DANFORTH.

JOHN CRAIG.

UNDERTAKERS.

WILLIAM A. FLAHERTY. P. H. RAFFERTY. PATRICK RAFFERTY. THOMAS J. BARKER. HORACE D. RUNEY E. H. MARSH.

POLICE DEPARTMENT.

M. C. Parkhurst, Chief.

R. R. Perry, Captain.

EDWARD McGARR, Sergeant. C. C. CAVANAGH, Sergeant.

JOHN E. FULLER.

A. L. STAPLES.

J. W. OLIVER.

GEORGE W. BEAN.

GEORGE L. SMITH.

EDWARD M. CARTER.

E. F. FALES.

J. F. Johnson.

E. A. CARTER.

EDWARD E. HAMBLEN.

JAMES F. FOLEY.

CHARLES L. ELLIS.

S. R. Dow, Sergeant.

P. W. SKINNER.

S. A. Brown.

JOHN HAFFORD.

IVAN LAIGHTON.

M. H. KINSLEY.

G. A. Bodge.

DENNIS KELLY.

GEORGE H. CARLETON.

H. H. MILLER.

Francis A. Perkins.

CHARLES S. THRASHER.

WILLIAM H. JOHNSTON.

M. C. Parkhurst, Lock-up Keeper.

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

Thursday evenings following the second and fourth Wednesdays of each month,

SCHOOL COMMITTEE

Last Monday evening of each month.



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